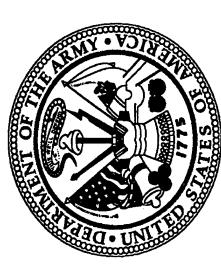
## **DEPARTMENT OF THE ARMY**

**Procurement Programs** 





DITIC QUALITY INSPROTED 2

FY 1999 Amended Budget Estimates

Committee Staff Procurement Backup Book

### WEAPONS AND TRACKED COMBAT VEHICLES

February 1998

**APPROPRIATION** 

DISTRIBUTION STATEMENT A
Approved for public release;
Distribution Unlimited

19980305 024

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# Index for WEAPONS AND TRACKED COMBAT VEHICLES

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	COMPABISON OF PROGRAM & FINANCING			

Appropriation: \*\*WEAPONS & TRACKED COMBAT VEHICLES\*\*

Activity: 1. \*\*TRACKED COMBAT VEHICLES\*\*

		T	(DOLS)			(Thouse	(Thousands of Dollars)		
S C	ITEM NOMENCI ATURE	۵	FY 99		FY 97		FY 98		FY 99
į		)	cost	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	<u>(S</u>	(4)	(2)	(9)	(2)	(8)	(6)	(10)
	**TRACKED COMBAT VEHICLES**								
-	ABRAMS TRNG DEV MOD (GA5208)				3,170		2,176		8,536
2	BRADLEY BASE SUSTAINMENT (G80718)	۵			250,920		231,043		285,844
က	BRADLEY FVS TRAINING DEVICES (G20900)	∢			571				12,728
4	HAB TRAINING DEVICES (G84600)			**					386
2	BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)	∢			848				2,075
9	FIELD ARTILLERY AMMUNITION SUPPORT VEH (G80100)	∢		48	58,314	36	39,179		
7	ABRAMS TANK TRAINING DEVICES (GB1300)	∢			12,546		13,076		13,411
8	COMMAND & CONTROL VEHICLE (G84200)	Θ	4,424,100	S.	48,766	S	30,262	10	44,241
	SUB-ACTIVITY TOTAL				375,135		315,736		367,221
	**MODIFICATION OF TRACKED COMBAT VEHICLES**								
6	CARRIER, MOD (GB1930)	∢			44,717		39,418		54,454
10	FIST VEHICLE (MOD) (GZ2300)	æ					15,595		20,720
ŧ.	BFVS SERIES (MOD) (GZ2400)	∢			113,618		59,974		58,998
						,			

Appropriation: \*\*WEAPONS & TRACKED COMBAT VEHICLES\*\*

Activity: 1. \*\*TRACKED COMBAT VEHICLES\*\*

			(DOLS)			(Thousa	(Thousands of Dollars)		
LINE NO.	ITEM NOMENCLATURE	0	FY 99 UNIT		FY 97		FY 98		FY 99
			COST	QTY	COST	QTY	COST	QTY	COST
Ξ	(2)	(e)	(4)	(2)	(9)	(7)	(8)	(6)	(10)
5	HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)	٧			95,410		72,784		11,339
£	HOWITZER, MED SP FT 155MM M109A5 (MOD) (GA0401)	∢			130				
14	FAASV PIP TO FLEET (GA8010)	٧			23,510		1,883	•	3,157
15	IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)	∢			55,529		31,922		38,175
16	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)	ω			51,401		41,311	W	50,401
17	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)	⋖							696
18	M1 ABRAMS TANK (MOD) (GA0700)	∢			62,934		29,230		53,301
19	ABRAMS UPGRADE PROGRAM (GA0750) LESS: ADVANCE PROCURMENT (PY)	∢			501,046		586,799		666,195
					203,828		328,628		412,661
50	ABRAMS UPGRADE PROGRAM (GA0750) ADVANCE PROCUREMENT (CY)				258,171		253,534		262,942
23	MODIFICATIONS LESS THAN \$2.0M (TCV-WTCV) (GA0925)						1,009		
	SUB-ACTIVITY TOTAL				909,248		875,288	· •	967,117

DEPARTMENT OF THE ARMY FY 99 PROCUREMENT PROGRAM

Appropriation: \*\*WEAPONS & TRACKED COMBAT VEHICLES\*\*

Activity: 1. \*\*TRACKED COMBAT VEHICLES\*\*

			(DOLS)			(Thous	(Thousands of Dollars)		
NO.	ITEM NOMENCLATURE	0	FY 99 UNIT		FY 97		FY 98		FY 99
			COST	QTY	COST	ΩTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)	(10)
	**SUPPORT EQUIPMENT AND FACILITIES**								
22	ITEMS LESS THAN \$2.0M (TCV-WTCV) (GL3100)	-			Ŧ		136		132
23	PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)				9,286		8,758		8,861
24	REGIONAL MAINTENANCE TRAINING SITES-EQUIP (GA2449)				1,362				
	SUB-ACTIVITY TOTAL				10,659	•	8,894		8,993
	ACTIVITY TOTAL				1,295,042		1,199,918		1,343,331

#### Appropriation: \*\*WEAPONS & TRACKED COMBAT VEHICLES\*\*

Activity: 2. \*\*WEAPONS AND OTHER COMBAT VEHICLES\*\*

		L	(DOLS)			(Thousa	(Thousands of Dollars)		
ENE C	ITEM NOMENCY ATLIDE	2	FY 99		FY 97		FY 98		FY 99
į		5	COST	OTY I	COST	OTY	COST	OTY I	COST
Ξ	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)	(10)
	**WEAPONS AND OTHER COMBAT VEHICLES**						<del></del>		
25	ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	∢	9,652	2,034	20,291	1,500	14,692	673	6,496
56	MACHINE GUN, 5.56MM (SAW) (G12900)	∢	2,946	3,802	12,050	406	5,455	1,525	4,494
27	GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)	∢	17,490	2,150	32,972	400	7,835	269	12,191
78	M16 RIFLE (G14900)	∢	425	15,583	6,523	11,297	4,984	16,067	6,829
59	5.56 CARBINE M4 (G14904)	∢	670	10,603	6,523	7,484	4,984	6,310	4,230
	SUB-ACTIVITY TOTAL				78,359		37,950		34,240
	**MODIFICATION OF WEAPONS AND OTHER COMBAT VEHICLES**								
99	M4 CARBINE MODS (GB3007)	∢			4,494		4,886		5,149
3	M119 MODIFICATIONS (GC0401)	<					4,875		4,812
32	M16 RIFLE MODS (GZ2800)	∢			4,907		4,669		6,241
33	MODIFICATIONS LESS THAN \$2.0M (WOCV-WTCV) (GC0925)				627		1,378		1,128
	SUB-ACTIVITY TOTAL				10,028		15,808		17,330
		$\frac{1}{2}$							

Appropriation: \*\*WEAPONS & TRACKED COMBAT VEHICLES\*\*

Activity: 2. \*\*WEAPONS AND OTHER COMBAT VEHICLES\*\*

LINE NO. (1)			(DOLS)			(Thousa	(Thousands of Dollars)		
	ITEM NOMENCIATURE	٥	FY 99		FY 97		FY 98		FY 99
		!	COST	ΩTY	COST	QTY	COST	QTY	COST
į ti	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)	(10)
•	**SUPPORT EQUIPMENT AND FACILITIES**								
34	ITEMS LESS THAN \$2.0M (WOCV-WTCV) (GL3200)				868		1,190		1,164
35	PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)				4,296		290'9		5,140
36	INDUSTRIAL PREPAREDNESS (GC0075)				5,068		5,640		3,959
37 8	SMALL ARMS (SOLDIER ENH PROG) (GC0076)				5,338		4,093		5,233
38	CLOSED ACCOUNT ADJUSTMENTS (GC9500)				142				
<u> </u>	SUB-ACTIVITY TOTAL			-	15,743		16,990		15,496
	ACTIVITY TOTAL				104,130		70,748		67,066
		at a support of the s							

#### DEPARTMENT OF THE ARMY FY 99 PROCUREMENT PROGRAM

Appropriation: \*\*WEAPONS & TRACKED COMBAT VEHICLES\*\*

Activity: 3. \*\*SPARES AND REPAIR PARTS\*\*

<del></del>	П	T		<del>-</del>	<del>     </del>		8	
FY 99	COST	(10)		23,211	23,211	23,211	1,433,608	
	QTY	(6)						
(Thousands of Dollars) FY 98	COST	(8)		20,199	20,199	20,199	1,290,865	
esnou I)	QTY	(2)						
FY 97	COST	(9)		19,883	19,883	19,883	1,419,055	
	QTY	(2)						
(DOLS) FY 99 UNIT	COST	(4)						
٥		<u>(c)</u>						
ITEM NOMENCLATURE		(2)	**SPARES AND REPAIR PARTS**	SPARES AND REPAIR PARTS (WTCV) (GE0150)	SUB-ACTIVITY TOTAL	ACTIVITY TOTAL	APPROPRIATION TOTAL	
LINE NO.		(£)		66	· · ·			

Exhibit P-1M, Procurement Programs - Modification Summary

E	(TOA, Dollars in Millions)	n Millions)								
	1996 &								င္	Total
System/Modification	Prior	1997	1998	1999	2000	2001	2002	2003	Complete	Program
ABRAMS TRNG DEV MOD (GA5208)										
M60A3 to M1 Conversion Kits	5.4									5.4
OIP Modification to M1A1 COFTs	2.1									2.1
AEI	1.7									1.7
M1 to M1A1 Modification Kits	2.2	0.4								2.6
Conduct of Fire Trainer (COFT) Image Generator (IG) and Computer R		2.8	2.2	4.1	0.8	0.8	8.0	0.8	4.3	16.6
AGTS/SEP Mod						9.0	2.4	2.4	6.0	11.4
Tank Driver Trainer Mod (M1A2 SEP Upgrade)				4.2	1.4			0.5		6.1
Close Combat Tactical Trainer (CCTT)/SEP Mod					0.2	6:0	2.5	2.0	2.7	8.3
Maintenance Training System (MTS) SEP Mod				0.2	0.3	3.2				3.7
Total	11.4	3.2	2.2	8.5	2.7	5.5	5.7	5.7	13.0	57.9
BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)										
Software Upgrades		8.0		2.1	4.4	4.8				12.1
Total		0.8		2.1	4.4	4.8				12.1
CARRIER, MOD (GB1930)										
Crew Chemical Protection	0.5	1.0	1.0	6.0	0.7	0.7	1.0	1.0	21.2	28.0
Block 1	276.9	43.7	38.4	53.6	58.7	52.9	72.6	85.1	795.1	1477.0
Total	277.4	44.7	39.4	54.5	59.4	53.6	73.6	86.1	816.3	1505.0
BFVS SERIES (MOD) (GZ2400)										
A1-A2 Conversion	347.3	16.4	16.8	13.6						394.1
A2 ODS Mods	67.2	49.6	28.9	31.9	1.6					179.2
Transmission Electronic Controller (TEC)	5.8	4.1	3.6							13.5
ACU Pillow Block Mod	5.8	6.0	9.0							7.2
Vehicle Intercom System	8.4	3.0	3.9							15.3
DECA	11.5	5.7	4.	2.5						21.1
HALON Replacement	3.7	9.0	4.7	0.1	0.1					9.2

Exhibit P-1M Procurement Programs - Modification Summary

P-1M Page 1 of 4

	(TOA, Dollars in Millions)	n Millions)								
	1996 &								ပ	Total
System/Modification	Prior	1997	1998	1999	2000	2001	2002	2003	Complete	Program
Armor Tiles	40.6	32.7								73.3
A2 Card Retrofit		9.0								9.0
Suite of Survivability Enhancement Systems						7.4	4.0	9.7		19.0
A2 ODS Applique				10.9						10.9
Total	490.3	113.6	0.09	59.0	1.7	7.4	4.0	9.7		743.6
HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)										
Howitzer Improvement Program	1207.4	95.4	66.5	11.3	9.1	5.5	0.1			1395.3
Chlorofluorocarbon (CFC) Elimination			6.3						9.5	15.8
Total	1207.4	95.4	72.8	11.3	9.1	5.55	0.1		9.5	1411.1
FAASV PIP TO FLEET (GA8010)										
FAASV Materiel Change (A2 Conversion)	72.5	22.5	0.1	2.9	0.1		18.7			116.8
FAASV Halon Replacement	0.4	1.0	1.8	0.3					4.6	8.1
Total	72.9	23.5	6: 6:	3.2	0.1		18.7		4.6	124.9
ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)										
AVLB 70 Block MOD				1.0	1.3	1.7				4.0
Total				1.0	1.3	1.7				4.0
M1 ABRAMS TANK (MOD) (GA0700)										
Halon Replacement (HAR) [MOD 1]	7.4	1.5	2.0	5.3	6.5	9.9	6.8	5.7	5.6	47.4
Driver's Hatch Interlock (DHI) [Mod 2]		20.4	6.5	5.8	4.9				39.8	77.4

25.5 8.6

0.6 2.5 0.3 0.6

0.6 0.6 0.7

0.6 3.3 0.8 0.7

0.6 3.5 1.1 0.8

0.6 3.5 4.2 0.8

3.5 2.1 0.8

5.3

27.0 60.1 0.4 14.5 13.7 2.4

Precision Lightweight GPS Receiver (PLGR) [MOD 5]

Battlefield Override (BF/OR) [MOD 7] Live Fire Category B (LFCB) [MOD 8] Live Fire Category A (LFCA) [MOD 6]

Vehicle Intercommunications System (VIS) [MOD 3] Armament Enhancement Initiative (AEI) [MOD 4]

60.5 17.3 39.3

4.5

0.7

5.3

6.0

6.6

13.4 0.3

77.4 50.1

Exhibit P-1M Procurement Programs - Modification Summary

	(TOA, Dollars in Millions)	in Millions)								
	1996 &								၀	Total
System/Modification	Prior	1997	1998	1999	2000	2001	2002	2003	Complete	Program
Driver's Viewer Quick Release (DVQR) [MOD 9]	0.3	0.2	0.3	0.3	0.2					1.3
Pulse - Jet System (PJS) [MOD 10]	29.0	6.7	3.5	2.4	1.5				296.9	340.0
Mounted Water Ration Heater (MWRH) [MOD 11]	1.9	0.1	0.1							2.1
System Enhancement Package (SEP) [MOD 12]					2.9	46.5	82.8	107.4	655.5	895.1
Embedded Battle Command (EBC) [MOD 13]					1.0	1.0	<del>.</del> :	1.0	5.5	9.6
External Auxiliary Pwr Unit (EAPU) [MOD 14]		8.0	2.0						40.8	50.8
External Auxiliary Pwr Unit Upgrade (EAPUU) [MOD 15]		2.4								2.4
NBC Fire Warning (NBCFW) [MOD 16]				4.1	3.3	0.4			5.3	13.1
Hand-Held Fire Extinguisher (HHFE) [MOD 17]					1.8					1.8
M1A2 Field Mods (A2FM) [MOD 18]		1.4	6.0	0.2	1.0	2.0	1.0	1.2	0.9	13.7
Matrix Support (MXSP) [MOD 19]		0.5	0.5	0.5	9.0	9.0	9.0	9.0	3.4	7.3
Prior Year Mod Installation (PYMI) [MOD 20]	65.0	6.4	0.5							70.4
M1A1-D Integration Kit [MOD 21]				20.3					271.4	291.7
Total	221.7	62.9	29.2	53.3	30.4	62.5	97.1	119.9	1348.4	2025.4
M4 CARBINE MODS (GB3007)										
Close Combat Optics (M4 Carbine)	6.0	3.1	1:	2.6	5.4					13.1
M203 for M4 Carbine		9.0								0.4
Modular Weapon System (M4 Carbine)		1.0	3.1	7:						5.2
M4 Improved Buttstock			0.7	1.4						2.1
Total	0.9	4.5	4.9	5.1	5.4					20.8
M119 MODIFICATIONS (GC0401)										
Block 1 Upgrade			4.9	4.8	2.9	0.3				12.8
Block 2 Upgrade						2.9			13.9	16.8
Total			4.9	4.8	2.9	3.2			13.9	29.6
M16 RIFLE MODS (GZ2800)										
Modular Weapon System (M16/M203)		2.9	1.5	4.5						8.9

Exhibit P-1M, Procurement Programs - Modification Summary

	(TOA, Dollars in Millions)	n Millions)								
	1996 &								To	Total
System/Modification	Prior	1997	1998	1999	2000	2001	2002	2003 Co	Complete	Program
Close Combat Optics (M16)	2.8	2.0	3.1	1.7						9.6
Total	2.8	4.9	4.7	6.2						18.6
MODIFICATIONS LESS THAN \$2.0M (WOCV-WTCV) (GC0925)										
M198 Howitzer System Improvement	13.8	9:0								14.5
Machine Gun Optics			1.3	1.1	1.0	1.0	1.3	1.3		7.1
Total	13.8	9.0	1.3	7:	1.0	1.0	1.3	1.3		21.5
4441	2200	25.4	2 7 2	2.02	207	44R 3	200 8	3006	2205.7	E074 6
Grand lotal	0.0622		241.3	7.7	! :	4.5.4	200.0			0214.0

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Ite	em Justifica	m Justification Sheet					February 1998		
Appropriation / Budget Activity/Serlal No:	lal No:					P-1 Item Nomenclature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS/1/Tre	cked Combat Vehick	8				ABRAM	ABHAMS TRNG DEV MOD (GA5208)	3A5208)		
Program Elements for Code B Items:	iS:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	14.2	1.0	3.0	3.2	2.2	8.5	2.7	5.5	5.7	5.7	13.0	64.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	14.2	1.0	3.0	3.2	2.2	8.5	2.7	5.5	5.7	5.7	13.0	64.6
Initial Spares												
Total Proc Cost	14.2	1.0	3.0	3.2	2.2	8.5	2.7	5.5	5.7	5.7	13.0	64.6
Flyaway U/C												
Won Svs Proc U/C												

requirements. These changes are hardware and software modifications to existing equipment to keep simulators abreast of developments in the Abrams Tank System. DESCRIPTION: Funding provided will accomplish modifications to Abrams Training Devices required as a result of changes to the Abrams tanks or tank training

modifications are delayed or deleted. The intended sites for the Conduct of Fire Trainer (COFT) M60A3 to M1 Conversions are for the National Guard units. The average expected gunner and commander throughput per year for the modified COFT is 3,016. The Conduct of Fire Trainer (COFT) M1 to M1A1, Optical Improvement (OIP) and Armament Enhancement Initiative (AEI) modifications are for units at FORSCOM, USAREUR, TRADOC, and National Guard. JUSTIFICATION: The program reflected here-in is structured to meet needs validated by the Abrams user community. Degradation of tank training will occur if these

Foreign   Control   Cont	Exhibit P-40	Exhibit P-40M Budget It	em Justific	tem Justification Sheet			Date		February 1998		
Fiscal Years   Fiscal Years   Coasilication   FY 1996   FY 1999   FY 2000   FY 2001   FY 2002   FY 2003   TC   Total Coasilication   FY 1996   FY 1999   FY 1999   FY 2000   FY 2001   FY 2002   FY 2003   TC   Total Coasilication   FY 1996   FY 1999   FY 1999   FY 2000   FY 2001   FY 2001   FY 2003   TC   Total Coasilication   FY 1996   FY 1999   FY 1999   FY 2000   FY 2001   FY 2003   TC   Total Coasilication   FY 1996   FY 1997   FY 1998   FY 1999   FY 2000   FY 2001   FY 2003   TC   Total Coasilication   FY 1996   FY 1997   FY 1998   FY 1998   FY 2000   FY 2001   FY 2003   TC   Total Coasilication   FY 1996   FY 1997   FY 1998   FY 1997   FY 1998   FY 2001   FY 2001   FY 2003   FY 2003   TC   Total Coasilication   FY 1996   FY 1997   FY 1998   FY 1998   FY 2001   FY 2001   FY 2001   FY 2003	Appropriation / Budget Activity/Sarial No. PPROS & TRKD CMBT VEHS / 1 / Tra	acked Combat Vehicles			P-1 Item Nomenclatu	9.	ABRAMS	TRNG DEV MOD (G	A5208)		
Classification   Fiscal Years   FY 1996   FY 1999   FY 2000   FY 2001   FY 2002   FY 2003   TC   Total MI Conversion Kits   S.4	Program Elements for Code B Ilems		epoo	Other Related Progra	am Elements						
Classification   FY 1996   FY 1997   FY 1998   FY 1999   FY 2000   FY 2000	Description	Fiscal Years									
State   Stat		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
EP Upgrade)  CTTI/SEP Mod  OF CT PY83 program dollars for mod that has been completed.	M60A3 to M1 Conversion Kits									-	
2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		5.4	0.0		0.0	0.0	0.0	0.0	0.0	0.0	5.4
2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	OIP Modification to M1A1 COFTs										
Operational Confiltreation Kits         1.7         0.0	1-90-05-7877 Operational	2.1	0.0			0.0	0.0	0.0	0.0	0.0	2.1
Operational Index control (A) and Computer Rehost COFT) image Generator (IG) and Computer Rehost Operational Operat	AEI										
Todatication Kits         2.2         0.4         0.0		1.7	0.0			0.0	0.0	0.0	0.0	0.0	1.7
Operational Strainer (COFT) Image Generator (IG) and Computer Rehost         2.2         4.1         0.0 </td <td>M1 to M1A1 Modification Kits</td> <td></td>	M1 to M1A1 Modification Kits										
SEP Mod Septentional Computer Rehost SEP Mod Septentional 0.0 2.8 2.2 4.1 0.8 0.8 0.8 4.3 4.3 SEP Mod Septentional 0.0 2.8 2.2 4.1 0.8 0.8 0.8 4.3 4.3 SEP Mod Septentional 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		2.2	0.4			0.0	0.0	0.0	0.0	0.0	2.6
SEP Mod SEP Mod SEP Mod SEP Mod Set Operational 0.0 0.0 0.0 0.0 0.0 0.6 0.4 2.4 6.0 Set Operational 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Conduct of Fire Trainer (COFT) Image Genera	tor (IG) and C	ბიmputer R€	shost							
SEP Mod       SEP Mod       0.0		0.0	2.8			0.8	0.8	0.8	0.8	4.3	16.6
First Trainer Mod (M1A2 SEP Upgrade)  First Trainer Mod (M1A2 SEP Upgrade)  Sombat Tactical Trainer (CCTT)/SEP Mod  First Training System (MTS) SEP Mod  First											
rriver Trainer Mod (M1A2 SEP Upgrade)  5-4528		0.0	0.0			0.0	9.0	2.4	2.4	0.9	11.4
Sombat Tactical Trainer (CCTT)/SEP Mod  Sombat Tactical Trainer (CCTT)/SEP Mod  Solution System (MTS) SEP Mod  Solution Operational  To be a completed of a	Tank Driver Trainer Mod (M1A2 SEP Upgrade	<u> </u>									
Combat Tactical Trainer (CCTT)/SEP Mod       0.0       0.0       0.0       0.0       0.0       0.0       2.7         5-4529       Operational Operational Companies of PY93 program dollars for mod that has been completed.       0.0		0.0	0.0			1.4	0.0	0.0	0.5	0.0	6.1
5-4529       Operational System (MTS) SEP Mod       0.0 <td>Close Combat Tactical Trainer (CCTT)/SEP M</td> <td>pol</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Close Combat Tactical Trainer (CCTT)/SEP M	pol									
5-4530       Operational       0.0       0.0       0.0       0.3       3.2       0.0       0.0       0.0         5-4530       Operational         11.4       3.2       2.2       8.5       5.7       5.7       5.7       13.0         k prior does not include 6.8 of FY93 program dollars for mod that has been completed.		0.0	0.0			0.2	6.0	2.5	2.0	2.7	8.3
5-4530 Operational 0.0 0.0 0.0 0.2 0.3 3.2 0.0 0.0 0.0 0.0 11.4 3.2 2.2 8.5 2.7 5.5 5.7 13.0 k prior does not include 6.8 of FY93 program dollars for mod that has been completed.	Maintenance Training System (MTS) SEP Moc	70									
11.4 3.2 2.2 8.5 2.7 5.5 5.7 13.0 k prior does not include 6.8 of FY93 program dollars for mod that has been completed.		0.0	0.0				3.2	0.0	0.0	0.0	3.7
41.4 3.2 2.2 8.5 2.7 5.5 5.7 13.0 k prior does not include 6.8 of FY93 program dollars for mod that has been completed.			,				1	!	1		
FY96 & prior does not include 6.8 of FY93 program dollars for mod that has been completed.	Totals	11.4	3.5				5.5	5.7	5.7	13.0	57.9
	FY96 & prior does not include 6.8 of FY93 pro	gram dollars f	or mod that	has been col	mpleted.						

						Z	DIVIDU	AL MO	INDIVIDUAL MODIFICATION	TION							Date		Feb	February 1998	
MODIFICATION TITLE:	E: M60,	A3 to	M60A3 to M1 Conversion Kits 1-03-05-4430	onver	sion !	(its 1-	03-05	4430													
MODELS OF SYSTEMS AFFECTED: M60A3 COFTS	AS AFFEC	TED:	M60A3	COFT	s																
DESCRIPTION / JUSTIFICATION:  The Conduct of Fire Trainer (COFT) provides with ammunition consumption. The COFT is	rificatio ire Trair consump	iN: ner (C ption.	OFT) The	provi COF1		e rea nfigui	dy cap ed to	ability the ta	the ready capability for precision tank gu configured to the tank system it supports.	ecisio tem it	n tanl supp	k guni orts.	nery t	rainin	y while	reduc	ing the	the ready capability for precision tank gunnery training while reducing the O&S costs associated configured to the tank system it supports.	costs a	associa	ited
In support of the Abrams fielding schedule, the conversion of M60A3 COFTs to M1 COFTs is required to meet the Army's new force structure. The structure has changed to make the M60 tank and training devices obsolete. This situation establishes an urgent requirement to convert the M60A3 COFTs to M1 configuration.	Abrams s change o M1 con	fieldir ed to r nfigure	ng sch make ation.	edule the M	, the 60 tar	conve nk and	rsion I traini	of M6 ng de	oas Co vices (	OFTs obsole	to M1 ste. T	COF his sit	Ts is tuation	requir n esta	ed to l blishe	neet th s an ui	ne Arm gent r	e conversion of M60A3 COFTs to M1 COFTs is required to meet the Army's new force structure. tank and training devices obsolete. This situation establishes an urgent requirement to convert the	v force nent to	struct	ure. rt the
Without this modification, one of the following most likely will occur: 1) Negation the outdated COFTs, units do little or no gunnery training; or 3) Units increase (which is more costly and ultimately defeats the primary purpose of the COFT)	ification, FTs, unit ostly and	one	of the little o	follow r no g defea	ing m junnel ts the	iost lil y traii prima	cely wi ping; c	ll occi rr 3) L	ur: 1) Juits ir of the	Nega Icreas COFI	tive tr se trai	aining ning v	y resu vith th	lts fro	m usir cand c	ig outd	lated C	most likely will occur: 1) Negative training results from using outdated COFTs; 2) In lieu of using nery training; or 3) Units increase training with the tank and consumption of full caliber ammunition be primary purpose of the COFT).	2) In aliber	lieu of ammu	using nition
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MI	TUS / MA.	JOR D	EVELO	PMEN	T MILE	ILESTONES:	S.	,	PLANNED			A	CCOM	ACCOMPLISHED	el						
Contractor Test and Evaluation: Initial Operational Test and Evaluation:	valuation: t and Evali	uation:							4Q95 4Q95				1096	1096 1096							
Installation Schedule:																					
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Outputs	13		2		4						_	-	_			_	_				
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Inputs Outputs																					20 20
METHOD OF IMPLEMENTATION:	AENTATIO	l	Contractor	ģ		ADMI	NISTR/	TIVE I	ADMINISTRATIVE LEADTIME:	M M M	+	Mor	Months	P	ODD	PRODUCTION LEADTIME:	ADTIM	E: 12	Months	ths	
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INDIVIDUAL MODIFICATION	M60A3 to M1 Conversion Kits 1-03-05-4430		8	P																								
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	MODIFICATION TITLE (Cont):	FINANCIAL PLAN: (\$ in Millions)		Ė	PROCUREMENT	Kit Quantity Installation Kits	Installation Kits, Nonrecurring	Equipment	Equipment, Nonrecurring	Data	Training Equipment	Support Equipment	Other	Interim Contractor Support		:	Installation of Hardware	<u>.</u>	ĭ i	<u>+</u>	ĭ	Ϋ́	¥	¥	<u>.</u>	TC E	Lota	Sa
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						NDIN	DUAL N	INDIVIDUAL MODIFICATION	ATION						Date		February 1998	y 1998	
MODIFICATION TITLE	OIP Modification to M1	difica	tion t	Ξ.	100	FTs 1-	A1 COFTs 1-90-05-7877	7877											
MODELS OF SYSTEMS AFFECTED: M1A1 COFTS	S AFFECTEI	D: M1/	41 00	Ts.															
DESCRIPTION / JUSTIFICATION:	FICATION:																		
This modification is required because the tank's optics now include filters to protect the crew from eye damage resulting from exposure to	is required	d bec	ause	the ta	nk's o	ptics r	now inc	lude fil	ters to	prote	ct the c	crew fr	om eye	damage	resulting	g from e	ewitch	e to	
change the gunner's sight from high to low power has been redesigned and relocated. Training with the Conduct of Fire Trainers (COFTs) will	imodate il er's sight fi	rom h	prove iigh to	a oper	33, a 1	has b	een re	design	ed and	reloca	ye san ated.	rainin	g with t	he Condu	added a	e Traine	ers (CO	FTs) v	, III
enable the gunners and commanders to quickly find and use the correct switches by touch.	rs and cor	mmar	ders	to qui	ckly fi	nd and	d use t	he corr	ect sw	itches	by ton	<u>당</u>							
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	US / MAJOF	3 DEVI	ELOPA		MILESTONES:	ONES:		PLANNED	NED		\	ACCOMPLISHED	ISHED						
Contractor Test and Evaluation:	aluation:							1096	90			1096							
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Installation Schedule:					}				-										
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MODIFICATION TITLE (Cont):		OIP	Modif	OIP Modification	to M1,	41 CO	FTs 1-	to M1A1 COFTs 1-90-05-7877	7877											
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INDIVIDUAL MODIFICATION	2-06-4		199	9		
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DIVION	M1 to M1A1 Modification Kits 1-92-06-4419			P	_	
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	MODIFICATION TITLE (Cont):	FINANCIAL PLAN: (\$ in Millions)		ADT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment Equipment Capara Training Equipment Support Equipment Support Equipment Other Interim Contractor Support Interim Contractor Support FY 1996 & Prior Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt Kits FY 2003 Eqpt Kits FY 2004 Eqpt Kits FY 2005 Eqpt Kits FY 2005 Eqpt Kits FY 2005 Eqpt Kits FY 2005 Eqpt Kits FY 2006 Eqpt Kits FY 2007 Eqpt Kits	Total Installment	
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MODIFICATION TITLE (Cont):	Cor	Conduct of Fire		rainer	Trainer (COFT) Image Generator (IG) and Computer Rehost 1-97-05-4526	) Imag	e Gene	erator (	(IG) an	d Com	puter	Rehos	t 1-97-	05-452	9				
FINANCIAL PLAN: (\$ in Millions)	9004																		
L ES	and Prior	FY 1997	1 266	FY 1998	198	FY 19	661	FY 2000	8	FY 2001	100	FY	FY 2002	F	FY 2003	TC		TOTAL	Ŋ.
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Installation Kits, Nonrecurring			2.8		2.1		2.5						_						
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MODIFICATION TITLE: AGI S/SET MOD 1-9/-0	AG10/0	Ž   L   L   L	3	2	2	<u>.</u>												İ				l	
MODELS OF SYSTEMS	AFFECTE	Z MIA	2 Adv.	anced	Gum	ery Tra	Gunnery Training System	ystem	_														
DESCRIPTION / JUSTIFICATION:	CATION:																						
This funding will modify existing M1A2 Advanced Gunnery Training Simulators to represent the most recent SEP changes to the M1A2. cheaper to modify existing training devices than to procure new ones.	odify exis existing t	ting Nraining	A1A2 3 dev	Adv.	ance	d Gur to pro	nery	Train new	ing Si ones.	mulat	ors to	repre	esent	the m	ost re	scent	SEP	chang	les to	the M	11A2.	It is	
							*																
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	S / MAJOR	DEVE	LOPM		MILES	MILESTONES:	iii		PLANNED	Ğ.			ACCOMPLISHED	/PLISE	<u> </u>								
															j								
Contractor Test and Evaluation: Initial Operational Test and Evaluation:	uation: nd Evaluatic	Ë							3003 4003	<b></b>													
															•								
Installation Schedule:																							
<u> </u>	Pr Yr	<u>آ</u> ,	FY 1997		†	-	<u>`</u> [`	FY 1998	-	+	-	FY 1999	وا	†	ſ	7				_	FY 2001	٦	Ī
inputs Outputs	i otalis	-	N	2	4		٧		,	+	-	v	2	+						=	u u	2	
		FY 2002		H		FY	FY 2003		$\downarrow$	"	FY 2004	_			FY 2005	905			-	100		ľ	Totals
I	-	2	8	4	╒	2	1	3	4	-	2	3	4	F	2	3		4	Complete	ē			
Inputs Outputs			<b></b>			2		<u></u>			2									2 2			14 14
METHOD OF IMPLEMENTATION:	TATION:	Contract EV 1997	Contractor EV 1997			ADMIN	ISTRA	TIVE LEA	ADMINISTRATIVE LEADTIME: FY 1998	₩Ë		ğ 9	Months	"	PRODUCE FY 1999	DCTIOI P	N LEA	PRODUCTION LEADTIME: FY 1999	18	Months	ıths		
Delivery Date:		FY 1997	997					FY 1998	866					· <u>-</u>	FY 1999	. 6							

						INDIVID	JAL MO	INDIVIDUAL MODIFICATION	NO NO							Date		February 1998	1998	
MODIFICATION TITLE (Cont):		۲	TS/SI	AGTS/SEP Mod	1-9	1-97-05-4527	527													
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior	996 Prior	F	FY 1997	۴	FY 1998	-	FY 1999	F	FY 2000	FY	FY 2001	FY 2002	200	FY 2003	5003	12		TOTAL	4
	Qty	\$	Qty	\$	ğ	\$	ð	s	ģ	\$	ģ	\$	Qţ	s	Oty	€9	δ	æ	Qţ	<del>()</del>
RDT&E PROCUREMENT Kit Quantity Installation Kits, Nonrecurring Equipment, Nonrecurring Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Other Interim Contractor Support Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits												9.0		4.	И	d 5.	27	0.0	4	2, 4, G.
Total Installment					$\downarrow$	-	1	1	$\frac{1}{1}$		1	90		0.4		70		9	Ī	7 4 7
lotal Procurement Cost					$\parallel$		$-\parallel$		$\parallel$		╢	0.0		, v.		£:-		0.0		-

	INDIVIDUAL MODIFICATION	MODIFICATI	NO					Date		February 1998	868	
MODIFICATION TITLE: Tank Driver Trainer Mod (M1A: MODELS OF SYSTEMS AFFECTED: M1A1 Tank Driver Trainer	d (M1A2 SEP Upgrade) 1-97-05-4528 er Trainer	rade) 1-97	-05-452	8								
DESCRIPTION / JUSTIFICATION:												
The Tank Driver Trainer (TDT) simulates actual tank performance for beginner and transitioning drivers. It provides a range of motion and simulated environments, terrain and situations which are difficult or impossible for the driver to experience in normal training or operations. M1A2 driver's compartment and tasks are significantly different from the M1A1. This project upgrades existing M1A1 Tank Driver Trainers	ctual tank performance for beginner and transitioning drivers. It provides a range of motion and ons which are difficult or impossible for the driver to experience in normal training or operations. The significantly different from the M1A1. This project upgrades existing M1A1 Tank Driver Trainers at	ance for be sult or import out from the	ginner a ossible fo	and trans or the dr This pro	sitioning c iver to ex plect upg	drivers. sperience rades ex	It provide in normalisting M	es a ran Ial traini IA1 Tar	ige of n ing or o	notion a peration reperation a		The at
the Armor School to match projected throughput of students as more M1A2s enter the field	t of students a	as more M	1A2s ent	er the fi	eld.		)					
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILES	MILESTONES:	PLANNED		AC	ACCOMPLISHED	HED						
Contractor Test and Evaluation: Initial Operational Test and Evaluation:		3000 4000										
Fr Yr Fy 1997 Totals 1 2 3 4	1 2 1	3 4	-	۲۲ ۱999 2	9	=	2 2 3	4	-	2	_   	4
					-							-
FY 2002	FY 2003		FY 2004	4		FY 2005			To		L L	Totals
1 2 3 4 1	2 3	4	2	3	4	2	3	Q Co	Complete			
Inputs Outputs	1				<del>-</del>							ကက
METHOD OF IMPLEMENTATION: Contractor Contract Dates: FY 1997	ADMINISTRATIVE LEADTIME: FY 1998	IVE LEADTIM FY 1998	ш	6 Months		PRODUCTION LEADTIME: FY 1999 Mar 99	ION LEADI Mar 99	oTiME: 9	24 N	Months		
Delivery Date: FY 1997		FY 1998				FY 1999	Sep 01		l		İ	

					=	<u> </u>	JAL MO	INDIVIDUAL MODIFICATION	N O						1	Date		February 1998	y 1998	
MODIFICATION TITLE (Cont):		Та	nk Driv	er Tra	iner N	M) bol	1A2 S	EP Upç	grade)	Tank Driver Trainer Mod (M1A2 SEP Upgrade) 1-97-05-4528	-4528							:		
FINANCIAL PLAN: (\$ in Millions)																				
	and T	FY 1996 and Prior	FΥ	FY 1997	Ě	FY 1998	<u> </u>	FY 1999	E	FY 2000	F	FY 2001	F	FY 2002	FY	FY 2003	TC	0	TOTAL	ఠ
	ģ	\$	ģ	s	ð	\$	ğ		δ	છ	ģ	s	Qt	\$	σţ	છ	Οţ	89	Ωţ	မှ
RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits Installation Kits, Nonrecurring Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Other Interim Contractor Support Interim Contractor Support FY 1996 & Prior Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits										4.						0.5			e e e e e e e e e e e e e e e e e e e	8. S. 4. F.
Total Installment					L			_												
Total Procurement Cost					Ц		Н	4	4.2	<del> </del>	4.					0.5				6.1

						2	INDIVIDITAL MODIFICATION	M MC	DIFIC	ATION	l							Date		February 1998	1998	
		Con	Close Combat Tactical Trainer (CCTT)/SEP Mod 1-97-05-4529	actica	Trai	jer Jer	LOC	SEP)	Mod	1-97-(	5-45	 ရ			İ							
MODELS OF SYSTEMS AFFECTED: Close Combat Tactical Trainer (CCTT)	SAFFEC	TED:	Close C	ombat	Tactic	≱l Trair	Jer (CC	E										:				
DESCRIPTION / JUSTIFICATION:	FICATIO	ż																				
This funding will modify existing Close Combat Tactical Trainer modules to represent the most recent SEP changes to the M1A2.	l modify	exist	ing Cl	ose C	ombe	nt Tac	tical	Fraine	r mod	ules t	c repr	esent	then	nost re	ecent	SEP (	hang	es to th	e M1A	cj		
																					1	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	US/MA	JOR DI	EVELO	PMEN	r MILE	STON	ES:		PLANNED	NED			ACCOMPLISHED	APLISH								
Contractor Test and Evaluation: Initial Operational Test and Evaluation:	aluation: and Eval	uation:							3Q02 4Q02	20 20												
Installation Schedule:	-									-				ſ								
	Pr Yr Totals	-	FY 1997	997 3	4		-	FY 1998	6	4	-	FY 1999	8	4	F	FY 2000	<del>ه</del>	4	F	۲۲ 2001 2	ا ا	4
Inputs Outputs																						
									-				f				Ī		-			
	F	FY 2002	7 005	1			FY 2003	7	+	-	FY 2004	4 6	+	+	FY 2005	902	4	Č	To Complete		_	otals
Inputs	14	1			8			-	+	+	1	,							12			34
Outputs				14					8										12			34
METHOD OF IMPLEMENTATION:	ENTATIC	1	Contractor	tor		ADM	ADMINISTRATIVE LEADTIME:	ATIVE	LEAD	IME:		W 9	Months	-	PRODUCTION LEADTIME:	CTION	LEAD	'IME:	15 N	Months		
Contract Dates:		<b>-</b>	FY 1997					<u>.</u>	FY 1998						FY 1999	_						
Delivery Date:		-	FY 1997			ļ		7	FY 1998						FY 1999							

					IND	IVIDUAL	. MODIFI	INDIVIDUAL MODIFICATION							Date	te e		February 1998	1998	
MODIFICATION TITLE (Cont):		๋	Close Combat		actical	Traine	(CCT	Tactical Trainer (CCTT)/SEP Mod 1-97-05-4529	Mod 1.	-92-05-	4529									
FINANCIAL PLAN: (\$ in Millions)	L	0007	_																	
	anc T	and Prior	Ę.	FY 1997	FY 1998	398	FY 1999	66	FY 2000		FY 2001	=	FY 2002	22	FY 2003	83	5	-	TOTAL	Ŋ.
	δţ	\$	Qty	S	Qty	\$	Qty	Н	Ωty	H	Qty		Qty	$\vdash$	Qty	\$	Oty Oty	89	Otty	₩
RDT&E PROCUREMENT						<u> </u>														
Kit Quantity																				
Installation Kits												- 6	4	2.5	<b>©</b>	2.0	7	2.7	8	7.2
Equipment								<u> </u>		, ,		n S								Ξ.
Equipment, Nonrecurring			-																	
Engineering Change Orders																				
Data					· · · · · · · · · · · · · · · · · · ·															
Training Equipment																-				
Support Equipment							••													
Other																				
Interim Contractor Support																				
·····																				
Installation of Hardware																	-			
FY 1996 & Prior Eqpt Kits																				_
FY 1997 Eqpt Kits																				
FY 1998 Eqpt Kits															-					
FY 1999 Eqpt Kits							,								-					
FY 2000 Eqpt kits																				
FY 2001 Eqpt kits												-,								
FY 2002 Eqpt kits																				
FY 2003 Eqpt kits																				
TC Equip-Kits																				
Total Installment																				
Total Procurement Cost								-	-	0.2		6.0	<u> </u>	2.5	-	2.0		2.7		8.3

							QN	VIDU.	AL MO	INDIVIDUAL MODIFICATION	TION									Date		Febru	February 1998	
MODIFICATION TITLE:	Maintenance Training System (MTS) SEP Mod 1-97-05-4530	enar	T eot	rainir	ςS δι	/sterr	IM) ι	S (S.	EP N	lod 1-	97-0	5-453	õ											
MODELS OF SYSTEMS AFFECTED: M1A2 Maintenance Trainers	S AFFECT	TED:	M1A2	Maint	manc	e Trai	ners																	
DESCRIPTION / JUSTIFICATION:	FICATION	<b>;</b>																						
This funding will modify existing M1A2 Maintenance Training Systems to represent the most recent SEP changes to the M1A2.	modify	exist	ting <b>№</b>	11A2	Maj	ntena	nce	Train	ing S	ysten	ns to	repre	sent	the	nost	recer	ot SE	P Ch	anges	to the	e M1A	તાં		
CONTRACT OF ANY OF TAXABLE CONTRACT AND EXTENSION	3					102					:												:	
DEVELOPMEN STA	US / MAJ	5 5		Z Z	<b>2</b>	ב ב	Š S	ä		PLANNED	NED			ACC	SOMP	ACCOMPLISHED	اي							
Contractor Test and Evaluation: Initial Operational Test and Evaluation:	aluation: and Evalu	iation:								3001 4001														
																								!
Installation Schedule:	Pr Vr		۵	EV 1997		-		ជ	FV 1998		F		FV 1999	666		F		FY 2000	  2			F	FY 2001	
	Totals	=	2		3	4	F	2		3	4	1	2		3	4	H	2	3	4	-	2	3	4
Inputs Outputs																								2 2
•										ļ														
		FY 2002	8		_	Ì	FY 2003	88		_		FY 2004	8		_	-	FY 2005	ျွ			To			Totals
	-	N	3		4	ᅱ	7	3	إ_	4	-	7	6	]	4	ᅱ	7	ਲ	4		Complete			
Inputs Outputs								·																21
METHOD OF IMPLEMENTATION:	ENTATION		Contractor	ctor		٧	DMIN	STRA	TIVE	ADMINISTRATIVE LEADTIME:	IME:		9	Months	SL	A.	ODOC	NOIL	PRODUCTION LEADTIME:	TIME:	15	Months	<b>10</b>	
Contract Dates: Delivery Date:			FY 1997 FY 1997	76 76					FY 1998 FY 1998	866 866						≿≿	FY 1999 FY 1999							
													I									l	l	

Value of the second sec					NDI	INDIVIDUAL MODIFICATION	ODIFIC	ATION							Date		February 1998	y 1998	
MODIFICATION TITLE (Cont):		Maint	enance	Frainii	ng Sys	tem (M	ITS) S	EP Mo	Maintenance Training System (MTS) SEP Mod 1-97-05-4530	05-453	0								
FINANCIAL PLAN: (\$ in Millions)	FY 1996	Γ																	
	and Prior	Ц	FY 1997	H	FY 1998	H	FY 1999	6	FY 2000	_	FY 2001	<u> </u>	FY 2002	FY	FY 2003	7	0	TOTAL	¥
•	Oty \$	Н	Oly S	\$ Oty		Š Š	Н	Ø \$	Oty \$	ğ	\$	ð	မှ	ð	မှ	λ̈́O	89	ğ	₩
RDT&E PROCUREMENT Kit Quantity Installation Kits										•	2	<b>6</b>						2	s,
Installation Kits, Nonrecurring Equipment					······································			0.2		0.3	9.0	9	<u>. 4</u>						1.1
Equipment, Nonrecurring Engineering Change Orders Data			<u> </u>														•		
Training Equipment Support Equipment													· · · · ·						
Other Interim Contractor Support																			
									·	· · · · · · · · · · · · · · · · · · ·									
Installation of Hardward				<del></del>						<del></del>									
FY 1996 & Prior Eqpt Kits																			
FY 1997 Eqpt Kits													· · · · · ·						
FY 1998 Eqpt Kits FY 1999 Eqpt Kits				<del></del>				<del>, , , , , , , , , , , , , , , , , , , </del>											
FY 2000 Eqpt kits																			
FY 2001 Eqpt kits							-												
FY 2002 Eqpt Kits																			
TC Equip-Kits																			
Total Installment		$\dashv$																	
Total Procurement Cost		-			_			0.5		0.3	6	3.2							3.7

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Ite	em Justification Sheet	tion Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	No:					P-1 Item Nomenclature:	re:					
PROCUPEMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehkies	CMBT VEHS / 1 / Tra	cked Combat Vehicl	98				BRADLEY	BRADLEY BASE SUSTAINMENT (G80718)	T (G80718)		
Program Elements for Code B Items:	Ş:			Code:	Other Related Program Elements:	am Elements:				-		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	317	-64	105	80	86	73	103	163	181	142	887	2246
Gross Cost	320.1	137.1	134.6	250.9	231.0	285.8	295.3	430.0	457.8	391.8	2328.3	5262.6
Less PY Adv Proc								37.5	42.0	33.0	151.3	263.8
Plus CY Adv Proc							60.6	38.3	13.6		151.3	263.8
Net Proc (P-1)	320.1	137.1	134.6	250.9	231.1	285.9	355.9	430.8	429.4	358.8	2328.3	5262.8
Initial Spares			4.9	2.3	0.3	7.1	9.3	11.8	11.0	11.2	83.9	141.8
Total Proc Cost	320.1	137.1	139.5	253.2	231.4	293.0	365.2	442.6	440.4	370.0	2412.2	5404.6
Fiyaway U/C												
Wpn Sys Proc U/C	1.0	1.4	1.3	3.2	2.4	4.0	3.0	2.7	2.6	2.8	2.7	2.4

DESCRIPTION: The Bradley Base Sustainment Program initiated a program to upgrade first generation Bradleys(A0) into the A2 configuration and bridge the production gap until the introduction of the A3 upgrade vehicles. FY99 marks the third production year of the A3 configuration. The upgraded A3 Bradley Fighting Vehicle will facilitate enhanced command and control, provide greater lethality, survivability, mobility, and sustainability required to defeat current and future threat forces while remaining operationally compatible with the main battle tank.

target acquisition upgrades required to fight as a member of the combined arms team. These vehicles will be remanufactured in the prime contractor's plant to preserve the critical skills and vendor base to allow for future modernization. JUSTIFICATION: The FY99 Budget will provide the third year of LRIP for the A3 upgrade program. The M2A3 upgrade program will provide digital communications and

Quantities are all A0-A2's in FY96 and prior, 45 A0-A2 Linebackers and 35 A3's in FY97, 80 A0-A2ODS and 18 A3's in FY98, and all A3's thereafter.

A four year multi-year contract is planned for FY's 00-03.

Exhibit P-40	Exhibit P-40C Budget Item Justification Sheet	n Justific	ation St	leet		Date February 1998
Appropriation / Budget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	acked Combat Vehicles			<u>-</u>	P-1 Item Nomenclature	BRADLEY BASE SUSTAINMENT (G80718)
Program Elements for Code B Items		Code	Other Relate	Other Related Program Elements	lements	
A3 Advanced Procurement Detail (in Mils):	Fiscal Year	2000 2.3 2.8 2.8 (3	2001 21.7 16.6 (4	2002 (42.0) 13.6 (33	(33.0)	

	T				_
February 1998		UnitCost	000\$		
Date: Febr	FY 99	Qty	Each		
		TotalCost	\$000	13280 272564	POEDAA
Weapon System Type:		UnitCost	\$000		
	FY 98	Qty			
MENT (G80718)		TotalCost	\$000	115165	231043
P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (G80718)		UnitCost	\$000		
2-1 Line Iter BRADLEY	FY 97	ģ	Each		
		TotalCost	\$000	175878	250020
/Serial No: s& TRKD CMBT bat Vehicles		UnitCost	\$000		
iget Activity r OF WPNS acked Com	FY 96	δţ	Each		
Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VENEX 1 / Tracked Combat Vehicles		TotalCost	\$000	134613	134613
	9	CD			
Exhibit P-5, Weapon WTCV Cost Analysis	WTCV	Cost Elements		BRADLEY BASE SUSTAINMENT (M2A2) BRADLEY BASE SUSTAINMENT (M2A3)	TOTAL

							ľ	Date:				
		Exhibit P-4	Exhibit P-40, Budget It	em Justification Sheet	tion Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	lal No:					P-1 Item Nomenciature:						
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicle	CMBT VEHS / 1 / Tra	cked Combat Vehicl	98				BRADLEY BASI	BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)	2A2/) (G80716)		
Program Elements for Code B Items:	:ຣະ			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	317	- 26	105	45	80							644
Gross Cost	320.1	137.1	134.6	75.0	115.2	13.3	3.3	6.3	0.0	0.0	0.0	804.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	320.1	137.1	134.6	75.0	115.2	13.3	3.3	6.3	0.0	0:0	0.0	804.8
Initial Spares			4.9	2.3								7.2
Total Proc Cost	320.1	137.1	139.5	77.3	115.2	13.3	3.3	6.3	0:0	0.0	0:0	812.0
Flyaway U/C												
Wpn Sys Proc U/C	1.0	1.4	1.3	1.7	1.4							1.3

DESCRIPTION: The Bradley Base Sustainment Program initiated a program to upgrade first generation Bradleys(A0) into the A2 configuration and bridge the production gap until the introduction of the A3 upgrade vehicles. FY99 marks the third production year of the A3 configuration. The upgraded A3 Bradley Fighting Vehicle will facilitate enhanced command and control, provide greater lethality, survivability, mobility, and sustainability required to defeat current and future threat forces while remaining operationally compatible with the main battle tank.

Quantities are all A0-A2's in FY96 and prior, 45 A0-A2 Linebackers FY97, and 80 A0-A2ODS in FY 98.

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No: PROCLIREMENT OF WPNS & TRKD CMBT	get Activity/	Activity/Serial No: : WPNS & TRKD CMBT		P-1 Line Item BRADLEY	P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A2/)	WENT (M2A2)	_	Weapon System Type:		Date: Febr	February 1998
WICY COST Allanysis		VEHS / 1 / Tracked Combat Vehicles	acked Comt	at Vehicles			(G80716)	.					
WTCV	Ō		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	Qt	UnitCost	TotalCost	Oty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	$\square$	000\$	Each	000\$	000\$	Each	000\$	000\$	Each	000\$	000\$	Each	000\$
1. VEHICLE		60371	105	575	30600	45	089	49867	08 8	623			
3. Engine		4965	105	47				4000	8	20			
4. Track		1933	105	18	829		18	1497	8 8	1 10			
6. Other GFE (Reman)		11109	56	9	5043	<del>2</del> <del>2</del> 6	112	9107	8 8	114			
7. STINGEH Kits					20464		702						
SUBTOTAL		94045			61768			93298			,		-
8. Govt Test & Eval		340			C C			9			1787		
9. Engineering-Contractor 10. Engineering-Government		1/845 4270			26/G			0014			4553		
11. Project Management Admin		2644			7540			3606			0703		
13. Reimbursable Matrix Supt		7842 2155			746/			9606			0460		
SUBTOTAL		35096			13274			7136			13280		
14. PSE		5472						14731					
TOTAL Gross P-1 End Cost		134613			75042 75042			115165			13280		
Less: Prior Year Adv Proc (by PY FY)  Net P-1 Full Funding Cost		134613			75042			115165			13280		
Plus: P-1 CY Adv Proc Other Non P-1 Costs Initial Spares		4854			9971								
Sport Sport					6			U 4			0000		
OIAL		138407			2			60161			19200		
				,									
							,						

Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	istory an	td Planning					Date:	February 1998	88
IBT VEHS/1/Tr		Weapon System Type:	n Type:		P-1 Line Item Nomenclature: BRADLEY BAS	Nomenclature:	Nomenclature: BRADLEY BASE SUSTAINMENT (M2A2) (GB0216)	(M2A2) (C	80716)	
Vanicias WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date	Date of First	αтν	Unit Cost	Specs		RFP Issue
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
HOLE										
FY 96	UDLP, York PA		TACOM	Jan-96	May-97	105	575	YES	9	
	UDLP, York PA		TACOM	Jul-97	Nov-97	45	089	YES	2	
	UDLP, York PA	SS/FFP	TACOM	Ang-98	Nov-99	8	623	YES	9	
2 1288										
FY 96	HAC, LaGrange GA	SS/FFP	AMCOM	Feb-96	Mar-97	75	118		9	
FY 98	HAC, LaGrange GA		АМСОМ	Nov-98	Ang-99	80	250	YES	9	
3. Engine		00/00	- T	90	90,000	10	7		9	
06 71	Curriens, Columbus III			Jan-90	Mar-90	2 8	7 0	2 1	2 2	
74 98	Cummins, Columbus IN	SS/FFF	ACOM	Aug-98	96-AON	08	OG		<u></u>	
4, Track										
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Item No. 2 Page 9 of 18 29

		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	ij					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS/1/Tra	icked Combat Vehicle	Š.				BRADLEY BAS	BRADLEY BASE SUSTAINMENT (M2A3) (G80717)	2A3) (G80717)		
Program Elements for Code B Items:				Code:	Other Related Program Elements:	am Elements:						
9	023735A			∞								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty				35	18	6.4	103	163	181	142	488	1602
Gross Cost	0.0	0.0	0.0	175.9	115.9	272.6	292.0	423.7	457.8	391.8	2328.3	4458.0
Less PY Adv Proc								37.5	42.0	33.0	151.3	263.8
Plus CY Adv Proc							9.09	38.3	13.6		151.3	263.8
Net Proc (P-1)	0.0	0:0	0.0	175.9	115.9	272.6	352.6	424.5	429.4	358.8	2328.3	4458.0
Initial Spares					0.3	7.1	9.3	11.8	11.0	11.2	83.9	134.6
Total Proc Cost	0.0	0.0	0.0	175.9	116.2	279.7	361.9	436.3	440.4	370.0	2412.2	4592.6
Fiyaway U/C												
Wpn Sys Proc U/C				5.0	6.5	3.8	2.9	2.7	2.6	2.8	2.7	2.9
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DESCRIPTION: The Bradley Base Sustainment Program initiated a program to upgrade first generation Bradleys(A0) into the A2 configuration and bridge the production gap until the introduction of the A3 upgrade vehicles. FY99 marks the third production year of the A3 configuration. The upgraded A3 Bradley Fighting Vehicle will facilitate enhanced command and control, provide greater lethality, survivability, and sustainability required to defeat current and future threat forces while remaining operationally compatible with the main battle tank.

JUSTIFICATION: The FY99 Budget will provide the third year of LRIP for the A3 upgrade program. The M2A3 upgrade program will provide digital communications and target acquisition upgrades required to fight as a member of the combined arms team. These vehicles will be remanufactured in the prime contractor's plant to preserve the critical skills and vendor base to allow for future modernization.

A four year multi-year contract is planned for FY's 00-03.

P-40C	Shee
Exhibit	Budget Item Justification

Exhibit P-40C Budget Ite	C Budget Ite	m Justific	m Justification Sheet		Date February 1998
Appropriation / Budget Activity/Serial No.				P-1 Item Nomenciature	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	ed Combat Vehicles				BRADLEY BASE SUSTAINMENT (M2A3) (G80717)
Program Elements for Code 8 Ilems		Code	Other Related Program Elements	am Elements	
A3 Advanced Procurement Detail (in Mils): FY TOA FY2000 for FY2001 (memo) FY2000 for FY2002 (memo) FY2001 (memo) FY2001 for FY2002 (memo) FY2001 for FY2003 (memo) FY2002 (memo) FY2002 (memo) FY2002 for FY2003 (memo) FY2002 for FY2003 (memo) FY2003 (memo)	Fiscal Year	2000 20.3 2.8 2.8	2001 2002 (37.5) 21.7 16.6 (42.0) 13.6 (3	(33.0)	

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget PROCUREMENT OF VEHS / 1 / Track	opriation/ Budget Activity/Serial No: OCUREMENT OF WPNS & TRKD CN VEHS / 1 / Tracked Combet Vehicles	ppropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS 1 / Tracked Combat Vahiclas		P-1 Line Item BRADLEY	P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A3)	MENT (M2A3)	≤	Weapon System Type:		Date: Febru	February 1998
WTCV	₽		FY 96			FY 97	(2000)		FY 98			FY 99	
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					35/06 20980	35 27	1020 777	18699	27	1039	44214 36425	£ %	606 479
<ol> <li>Other GFE</li> <li>Reman (General Dynamics)</li> <li>Pre Mod Depot Maint</li> </ol>					3212		92	2224	8	124	55959 6049 4290	73 73 73	767 83 59
SUBTOTAL					128246			70085			206071		
9. EngineeringGovernment					7234	·		11777			15180		
10. EngineeringContractor  11. Project Management Administration					25711 1843			21422 1882	1,4		27765 2314		
<ol> <li>Reimbursable Matrix Support</li> <li>Test and Evaluation</li> </ol>					1945 861			2544 760			2443 277		
SUBTOTAL					37594			38385			47979		
14. Cummins Engine Life-of-Type (LOT) Buy 15. Peculiar Support Equipment					8038 2000			2600			7837		
17. Fielding								1808			2149 8528		
SUBTOTAL					10038			7408			18514		
TOTAL Gross P-1 End Cost					175878 175878			115878 115878			272564 272564		
Less: Prior Year Adv Proc  Net P-1 Full Funding Cost  Plus: D-1 CV Adv Proc					175878			115878	*		272564		
Other Non P-1 Costs Initial Spares								293			7130		
Mods					175878			116171	, <del></del>		279694		

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Exhibit	Exhibit P-5a, Budget Procurement History and Planning	istory ar	nd Planning					ŭ	February 1998	98
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat		Weapon System Type:	m Type:		2-1 Line Item I	P-1 Line Item Nomenclature: BRADLEY BAS	Nomenclature: BRADLEY BASE SUSTAINMENT (M2A3) (G80717)	(M2A3) ((	(212)	
Vahicles	Contractor and Location	Contract	Coation of PCO	Award Date Date of First		- ALC	Unit Cost	Specs	-	RFP Issue
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FY 97	UDLP, York PA	SS/FFP	ТАСОМ	Jul-97	Oct-98	32	1953	YES	9	
FY 98	UDLP, York PA			Nov-97	May-99	18	1933	YES	9	
FY 99	UDLP, York PA	SS/FFP	TACOM	Dec-98	Mar-00	73	810	YES	9	
34 <u>4</u>										
E. 1843	DAVTHEON TI TY/HAC GA	7,6	AMCOM	Son-07	Δ110-08	, a	1020	VES.	2	
FV 08	BAYTHEON TI TX/HAC GA	7. GT	AMCOM	Dec-97	Anr-99	3 &	1039	YES	2 2	
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3. FUR										
FY 97	TEXAS INSRUMENT, DALLAS TX	SS/FFP	NVL	Mar-97	Apr-98	27	777		9	
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Exhibit P-21, Production Schedule

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FY 98 / 99 BUDGET PRODUCTION SCHEDULE	OUCTIC	N SCH	IEDUL!	117		<u></u>		T E	RADLE	nciature. BRADLEY BASE SUSTAINMENT (M2A3) (G80717)	E SUS	TAINME	NT (R	2A3) (G	180717	_			Š	Ď		ű	February 1998	1998		
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		Exhibit P-4	Exhibit P-40, Budget It	em Justification Sheet	tion Sheet			-		February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS/1/Tra	cked Combat Vehicle	Se				BRADLEY FV	BRADLEY FVS TRAINING DEVICES (G20900)	ES (G20900)		
Program Elements for Code B Items:	S:			Code:	Other Related Program Elements:	am Elements:						
				4		0203735A D	371 COMBAT VEHIC	0203735A D371 COMBAT VEHICLE IMPROVEMENT PROGRAM	PROGRAM			
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	225.4	0.0	0.0	9.0	0:0	12.7	23.8	19.0	2.6	3.3	36.4	323.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	225.4	0.0	0.0	9.0	0.0	12.7	23.8	19.0	2.6	3.3	36.4	323.9
Initial Spares	1.8											1.8
Total Proc Cost	227.2	0.0	0.0	9.0	0.0	12.7	23.8	19.0	2.6	3.3	36.4	325.7
Flyaway U/C												
Wpn Sys Proc U/C												

### Description:

- Bradley Advanced Training System (BATS) Integrated BFVS A3 crew precision gunnery training system.
- Maintenance Trainer Replicates actual Bradley turret allowing maintainers to trouble shoot, fault isolate, and repair.
   Precision Gunnery System (PGS) Upgrade PGS to integrate BFVS A3. Facilitates unit sustainment training between gunnery cycles.
  - Bradley Desktop Trainer (BDT) desktop computer designed to support individual and networked unit training.

#### Justification:

suitable training areas will drastically reduce the capability to provide effective, realistic training on the BFVS through the operational use of the vehicle. The goal of training devices is to provide cost effective training to the soldiers without sacrificing realism. This training equipment will be part of an overall training package which will training equipment. The rising cost of fuel, ammunition, repair parts, environment restrictions, vehicles used exclusively for training, and restriction on the availability of Introduction of the more technologically advanced Infantry Fighting Vehicle and Cavalry Fighting Vehicles into the Army inventory necessitates a redesign of existing be used to replicate or substitute for actual vehicle use.

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD C	dget Activity	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT		P-1 Line Iten BRADL	P-1 Line Item Nomenclature: BRADLEY FVS TRAINING DEVICES	G DEVICES		Weapon System Type:		Date: Febru	February 1998
		VEHS/1/7	racked Con	VEHS / 1 / Tracked Combat Vehicles			(G20900)						
WTCV	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	L	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	Ц	000\$	Each	000\$	000\$	Each	000\$	000\$	Each	000\$	000\$	Each	\$000
Production:													
1.Bradley Advanced Training System											6500	S.	1300
2. Maintenance Trainers					440	-	440				1545	4	386
3. Precision Gunnery System											2552	25	102
4. Bradley Desktop Trainer (BDT)					•						1150	9	10
L					Š							3	-
Government Engineering:					181						6/6		
TOTAL					571						12728		
													•••
								<u></u>					
							4911						
									-				
	4												

Exhibit	Exhibit P-5a, Budget Procurement History and Planning	History an	nd Planning					Date:	February 1998	86
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item Nomenclature:	Nomenclature				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	it .					BRADLEY	BRADLEY FVS TRAINING DEVICES (G20900)	VICES (G2	(0060)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	ΩTY	Unit Cost	Specs	Date Revsn	RFP tssue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
1. Bradley Advanced Training System FY99	TBD	FFP	TBD	Nov-98	Aug-99	5	1300	N/A	N/A	N/A
2. Maintenance Trainers										
FY97	TBD	FFP	<b>TBD</b>	Aug-98	Jan-99	-	440	Z/A	¥ Z	N/A
FY99	TBD	FFP	TBD	Jan-99	Jul-99	4	386	A/N	X X	N/A
3. Precision Gunnery System										
FY99	SAAB, Sweden	<u>H</u>	STRICOM	Dec-98	Aug-99	25	102	N/A	¥ X	N/A
4. Bradley Deskbook Trainer										
FY99	UDLP	댐	STRICOM	Nov-98	Ang-99	96	12	N/A	A A	N/A
								-		
REMARKS:										

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifice	ation Sheet		•			February 1998		
Appropriation / Budget Activity/Serial No:	lai No:					P-1 Item Nomenclature:	:0:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tre	cked Combat Vehicle	es				HAB TR	HAB TRAINING DEVICES (G84600)	(84600)		••••
Program Elements for Code B Ilems:	:St			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty							5					5
Gross Cost	0.0	0.0	0:0	0.0	0.0	0.4	15.2	1.3	1.1	0.0	0.0	17.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0:0	0.4	15.2	1.3	1.1	0.0	0.0	17.8
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	0.4	15.2	1.3	1.1	0.0	0.0	17.8
Flyaway U/C												
Wpn Sys Proc U/C												

Advanced Individual Training (AIT) for the Military Occupational Specialty (MOS) 12B Combat Engineer on Wolverine driver/operator mission functions. Mission functions will include, driving the vehicle and conducting gap crossing operations (e.g. launch and retrieve the bridge) - day/night and in all weather/environmental conditions. Each DESCRIPTION: The Wolverine (Heavy Assault Bridge) simulator is an institutional operator training system (near term implementation) and will evolve into a future unit collective training system (mid to far term) implementation. Five institutional operator simulator systems will be located and housed at Ft. Leonard Wood to accomplish simulator system will have the capability to train two Wolverine crews (4 MOS 12Fs) concurrently. The average student throughput is approximately 208.

JUSTIFICATION: The simulators will optimize training effectiveness at reduced institutional OPTEMPO costs and will minimize environmental impact to the installation.

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1998		UnitCost	\$000	
February 1998			Ц	
Date: F	FY 99	Q Ş	Each	
		Cost	g	386
Эф		TotalCost	\$000	
Weapon System Type:	r	ost		
eapon S		UnitCost	\$000	
<u>}</u>	FY 98	Qty	rch ICh	
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14600)		TotalCost	000\$	
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P-1 Line Item Nomenctature: HAB TRAINING DEVICES (G84600)		UnitCost	000\$	
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P-1 Line II HAB	FY 97	ģ	Each	
	1	ost	0	
		TotalCost	000\$	
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Appropriation/ Budget Activity/Serial No: PROCUPEMENT OF WPNS & THKD CMBT VEHS 1 / Tracked Combat Vehicles	96	ty	ر او	
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priation/   CUREMI		talCost	000	
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<i>N</i> eapon Analysis		ents		
Exhibit P-5, Weapon VTCV Cost Analysi	VT.V	Cost Elements		
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		Exhibit P-4	Exhibit P-40, Budget Ite	em Justification Sheet	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	i No:					P-1 Item Nomenclature:	re:					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicle	OMBT VEHS/1/Tra	cked Combat Vehicle	SS				BRADLEY FVS T	BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)	(MOD) (GZ2500)		
Program Elements for Code B Items:				Code:	Other Related Program Elements:	ım Elements:						
				¥		0203735A D	0203735A D371 COMBAT VEHICLE IMPROVEMENT PROGRAM	LE IMPROVEMENT	PROGRAM	i		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	3.9	6.0	0.5	8.0	0.0	2.1	4.4	4.8	0.0	0.0	0.0	22.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	3.9	6.0	0.5	9.0	0.0	2.1	4.4	4.8	0.0	0:0	0.0	22.5
Initial Spares												
Total Proc Cost	3.9	6.0	0.5	0.8	0.0	2.1	4.4	4.8	0.0	0.0	0.0	22.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
Software upgrades to BFV Conduct of Fire Trainer (COFT)s, ODS COFTS, Precision Gunnery System, Bradley Advanced Training System, Bradley Desktop Trainer, and Maintenance Training Systems.

# JUSTIFICATION:

Since training devices now function based on software which, as the systems are upgraded/modified, the training device software must be modified to provide adequate training for the soldier. Currently fielded training devices will be upgraded to support the BFVS as system enhancements and software maturation occurs. The average soldier sustainment throughput per year is approximately 3600 for the BFV Commanders and Gunners in the units who will be receiving training on these COFTS.

Exhibit P	Exhibit P-40M Budget Item Justification Sheet	em Justifice	ation Sheet			Date		February 1998		
Appropriation / Budget Activity/Serial No. Propropriation / Budget Activity/Serial No. PRICO PROCUREMENT OF WPNIS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	/ Tracked Combat Vehicles			P-1 Item Nomenclature		BRADLEY FVS T	BRADLEY FVS TRAINING DEVICES (MOD) (G22500)	(MOD) (GZ2500)		
Program Elements for Code B Ilems		Code	Other Related Program Elements	m Etements						
Description	Fiscal Years									
OSIP NO. Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
Software Upgrades 1-96-05-4513 Operational	0.0	0.8	0.0	2.1	4.4	4.8	0.0	0.0	0.0	12.1
Totals	0.0	0.8	0.0	2.1	4.4	4.8	0.0	0.0	0.0	12.1
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MODIFICATION TITLE:	Soft	Software Upgrades	Upgra	des 1	0-96-	-96-05-4513	ဗ															
MODELS OF SYSTEMS AFFECTED: BFV COFTs,	S AFFE	CTED:	BFV C		o sac	OFTS,	Precisi	on Gur	neny Sy	/stem, I	3ATS, I	3radley	, Deskto	op Train	ıer, Mair	ntenan	se Train	ODS COFTS, Precision Gunnery System, BATS, Bradley Desktop Trainer, Maintenance Training Sytems.	ms.			
DESCRIPTION / JUSTIFICATION:	FICATION	: O				į			-													
Software updates will be required of training devices. As a system is upgraded/modified software on the training device must be modifed to ensure adequate training for the soldier.	will be trainin	e requigion	iired o the so	f trair Idier.	ing d	evices	. As	a syst	em is	upgra	ded/n	odifie	ed soft	ware	on the	traini	ng de∖	rice m.	ıst be	modif	ed to	
PEVEL OBMENT STATIS (MA IOB DEVEL OBMENT MILESTONE	/W/ SI I	9 0	EVELO	DIMEN	IT MII	ACTOR	u	٥	DI ANNED		Ĭ	Į.	ACCOMPINED	ے								
Preliminary Design Review	eview			<u>.</u>		5	ı	-			ŧ.		<u> </u>	)								
Critical Design Review Contractor Test & Evaluation	luation	,																				
Development Lest & Evaluation Initial Operational Test and Evaluation IPR Production Decision	valuatio t and Ev on	n aluatior	_																			
TDP Available																						
Installation Schedule:																						
	Pr Yr		ΕΥ	FY 1997			Ĺ.	FY 1998			-	FY 1999				FY 2000				FY 2001		
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		Exhibit P-40, budget	=	lem Justilication Sheet	atton Sheet				Ĭ	February 1998		
Appropriation / Budget Activity/Serial No:	I No:					P-1 Item Nomenclature:	re:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	PNS & TRKD CI	MBT VEHS/1/	Tracked Comi	bat Vehicles			FIELD /	FIELD ARTILLERY AMMUNITION SUPPORT VEH (G80100)	MUNITION SUI	PORT VEH (G	380100)	
Program Elements for Code B Items:				Code:	Other Related Program Elements:	am Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	805		48	48	36							937
Gross Cost	408.9	0.0	50.0	58.3	39.2	0.0	0.0	0.0	0.0	0.0	0.0	556.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	408.9	0.0	50.0	58.3	39.2	0.0	0.0	0.0	0.0	0.0	0.0	556.4
Initial Spares	1.8						-					1.8
Total Proc Cost	410.7	0.0	50.0	58.3	39.2	0.0	0.0	0.0	0.0	0.0	0.0	558.2
Fiyaway U/C												
Wpn Sys Proc U/C	0.5		1.0	1.2	1.1							.6

## DESCRIPTION:

The Field Artillery Ammunition Support Vehicle (FAASV) is a full tracked armored ammunition vehicle with onboard Ammunition Handling Equipment (AHE). The M992 is overhead ballistic protection between the FAASV and the Howitzer during loading operations. A conveyor is used for passing prepared projectiles and propellant charges from the FAASV into the supported Howitzer. Modifications to the rear door, conveyor, and propellant canister racks is incorporated to make the FAASV compatible with the M109A6 Paladin. The FAASV has the mobility equivalent to its supported Self-Propelled Howitzers. The FAASV is designed to operate in all geographical areas and unimproved, and/or cross-country roads. Armor shielding provides necessary ballistic protection. An armored rear door hinges upward and outward to provide the used to support the M109 Self-Propelled Howitzer (SPH). The FAASV is capable of transporting a minimum 12,000 pounds of 155mm ammunition over improved, climatic conditions in which the Howitzer operates. The M992A2 was type classified standard in July 1994.

## JUSTIFICATION:

Extinguisher System. The FAASV is a companion vehicle to, and is required to support the M109A6 Self-Propelled Howitzer (SPH). It also preserves a warm mobilization over the current M548, which is being replaced on a one-for-one basis. Thus, high artillery firing rates can be maintained while minimizing casualties. The FAASV has a The Carrier, Ammunition, Tracked (155mm, M992A2) provides a significant Improvement to the Army's offensive ground combat capability. The FAASV provides 100% increase in armor protection for the crew and ammunition, an 80% increase in Ammunition Handling Equipment (AHE) capability and a 50% increase in vehicle mobility ventilated face piece Nuclear, Biological, Chemical(NBC) system, a Simplified Test Equipment - Internal Combustion Engine (STE-ICE), and an Automatic Fire base for the SPH with the only tooled and experienced producer.

Exhibit P-5, Weapon	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD C	udget Activity/?	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT		P-1 Line Item ! FIELD ARTIL!	P-1 Line Item Nomenclature: FIELD ARTILLERY AMMUNITION SUPPORT	ION SUPPORT	<u>≥</u>	Weapon System Type:	Гуре:	Date: Febr	February 1998
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Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	listory an	d Planning					Ŗ	February 1998	86
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat		Weapon System Type:	п Туре:		P-1 Line Item Nomenclature:	lomenclature:	ter in Antiti Fox Additions of process of the control of the contr	1000	30	
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	York, PA United Defense (UDLP-GSD)	Option	TACOM	Jan-97	Nov-98	48	651			***
FY 98	York, PA United Defense (UDLP-GSD)		ТАСОМ	Apr-98	May-99	36	748			Jan-98
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3. Roadwheels						,				
FY96	North American Molded	C/FFP	TACOM	May-96	Oct-97	84	en T			
FY 97	North American Molded	C/FFP	TACOM	Jan-97	May-98	48	ю		****	
FY 98	Products Harville, OH North American Molded	C/FFP	TACOM	Feb-98	Mar-99	36	က			
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4. Track										
FY 96	Varec, Belguim	C/FFP	TACOM	96-Inf	Oct-97	48	19			
FY 97	Detroit Diesei	C/FFP	TACOM	Sep-97	May-98	48	16			
FY 98	Detroit Diesel	C/FFP	TACOM	Feb-98	Aug-98	36	4			
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		Exhibit P-4	Exhibit P-40, Budget Ite	em Justification Sheet	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	:0					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS/1/Tra	cked Combat Vehicle	æ				M1A2 TANK	M1A2 TANK TRAINING DEVICES (GB1302)	S (GB1302)		
Program Elements for Code B Items:	ŝ			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Otv												
Gross Cost	22.9	16.8	6.1	12.5	13.1	13.4	8.2	10.8	12.1	12.4	27.0	155.4
Coo DV Adv Droc												
Fess L I Van Ling												
Plus CY Adv Proc										, ,	1	155.4
Net Proc (P-1)	22.9	16.8	6.1	12.5	13.1	13.4	8.2	10.8	12.1	12.4	27.0	1001
Initial Spares												
Total Proc Cost	22.9	16.8	6.1	12.5	13.1	13.4	8.2	10.8	12.1	12.4	27.0	155.4
Flyaway U/C												
Wpn Sys Proc U/C											].	
DESCRIPTION: The family of M1A2 Training Aids, Devices, Simulators and Simulations (TADSS) will replicate actual tank performance without incurring the much nigher	e family of M	1A2 Training	Aids, Device	s, Simulator	rs and Simula	itions (TADSS	3) will replica	te actual tan	k pertormanc	e without inc	urring tne mu	cn nigner

costs of operating the tank itself.

- Advance Gunnery Training System (AGTS) - These are precision gunnery trainers which provide realistic commander and gunner training under varying scenarios.

Trainer (HOT); Hull Electrical Diagnostic/Troubleshooting (D/T) Trainer; Turret/Fire Control D/T Trainer; and Direct Support Electrical System Test Set Line Replaceable Unit (DSESTS LRU) simulators. The students (approximately 600/yr) will learn about the sub-systems and procedures for troubleshooting and fault isolating the tank system. The intended sites are Ft. Knox and Aberdeen Proving Grounds. - Maintenance Trainers - These systems provide training in essential unit and direct support/general support tasks. There are four different trainers: M1A2 Hands-on-

- SEP Integration - This funding provides for integration of SEP improvements into the various training devices impacted by those changes on the tank.

JUSTIFICATION: Fielding of the M1A2 Main Battle Tank requires concurrent fielding of a training support package. It is not cost effective to provide effective, realistic training on the M1A2 tanks through the operational use of the vehicle. Realistic training on a family of training devices simply makes better economic sense.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & THKD CMBT VEHS / 1 / Tracked Combat Vahiclas	get Activity/9	Serial No: & TRKD CMBT		P-1 Line Iten M1A2 TAN	P-1 Line Item Nomenclature: M1AZ TANK TRAINING DEVICES (GB1302)	CES (GB1302)	2	Weapon System Type:		Date: Febru	February 1998
VOTA	₽		FY 96			FY 97			FY 98			FY 99	
ents	8	TotalCost	δ	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	П	\$000	Each	\$000	\$000	Each	\$000	000\$	Each	000\$	000\$	Each	\$000
Advance Gunnery Training System (AGTS) 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost	∢	1819 206 268 2907			5684 550			7700 550 1768			8800 400 300		
SUBTOTAL		5200	N	2600	7405	ø	1234	10018	7	1431	9500	60	1188
M1A2 Maintenance Trainers 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost	⋖	750 183											
SUBTOTAL		933	VAR	VAR									
M1A2 Non System Integration Kits 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost	∢				1779							1 20	
SUBTOTAL					1941	VAR	VAR		······································				
M1A2 Software Upgrades 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost	<				100			100			100		
SUBTOTAL			,		480	VAR	VAR	925	VAR	VAR	925	VAR	VAR
SEP Integration 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost	∢				2720			633 50 1450			2836 50 100		
SUBTOTAL					2720	VAR	VAR	2133	VAR	VAR	2986	VAR	VAR
TOTAL		6133			12546			13076			13411		

Exhibit P	Exhibit P-5a, Budget Procurement History and Planning	istory ar	nd Planning				<u></u>	Date: Fe	February 1998	8
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles		Weapon System Type:	т Туре:		P-1 Line Item I	P-1 Line Item Nomenclature: M1A2 TANK	nenciature: M1A2 TANK TRAINING DEVICES (GB1302)	CES (GB1	302)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	αту	Unit Cost	Specs	Date Revsn	RFP Issue Date
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	Lockheed Martin, Orlando, FL	S C	STRICOM	Mar-98	Mar-00	^	1431	3	?	¥ Ž
	Lockheed Martin, Orlando, FL	C-FPI	STRICOM	Jan-99	Mar-01	8	1188			ΑX
M1A2 Maintenance Trainers FY96	Contraves, Tampa, FL	C-FFP	STRICOM	Mar-96	Mar-98	VAR	VAR	Yes	ĝ	N/A
M1A2 Non System Integration Kits 1/ FY97	Various	C-FFP	STRICOM	Mar-97	Jun-98	VAR	VAR	Š	ş	N/A
M1A2 Software Upgrades 2/ FY97	Various	C-FFP	STRICOM	Dec-96	Dec-97	VAR 0	VAR	2 2	8 2	A S
FY99	Various	FF-O	STRICOM	Dec-98	Dec-99	A N	VAR		2 2	Z Z Z Z
SEP Integration FY97 FY98	Lockheed Martin, Orlando, FL Lockheed Martin, Orlando, FL	C-PIF C-PIF	STRICOM	Jun-97 Feb-98	A A	VAR	VAR		22	N/A N/A
FY99	Lockheed Martin, Orlando, FL	- HI-C	STRICOM	Feb-99	Mar-00	VAR	VAR	2	2	Ψ Z
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REMARKS: 1/ M1A2 Non-System Integration Kits provide system unique		ne installatic	kits allowing the installation of Non-System Training Devices, such as Thru Sight Video (TSV), Tank Weapon Gun	wices, such	າ as Thru ໂ	Sight Video	(TSV), Tank V	Neapon	Gun	

<sup>1/</sup> M1A2 Non-System Integration Kits provide system unique kits allowing the installation of Non-System Training Devices, such as Thru Sight Video (TSV), Tank Weapon Gun Simulation System (TWGSS), Precision Range Integrated Maneuver Exercise (PRIME), and Multiple Integrated Laser Engagement System (MILES) onto the M1A2 tank.

<sup>2/</sup> M1A2 trainer software upgrades update M1A2 training devices to keep pace with changes in the M1A2 tank.

FY 98 / 99 BUDGET PRODUCTION SCHEDULE	UCTIO	N SCF	1EDUL	щ			<u>-</u>	Tem	Nome	P-1 Item Nomenclature: M1A2	ature: M1A2 TANK TRAINING DEVICES (GB1302)	ANK TI	PAINIF	ig DE	VICES	(681	302)					Date:	 6			Febr	February 1998	868		
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Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	re:					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS/1/Tra	icked Combat Vehicle	Sõ.				COMMAND	COMMAND & CONTROL VEHICLE (G84200)	LE (G84200)		
Program Elements for Code B Items:	:5			Code:	Other Related Program Elements:	am Elements:						
				∢		PE 0604640A		Advanced Command and Control Vehicle	l Vehicle			
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty				2	5	10	22	22	22	26	316	439
Gross Cost	0.0	0.0	0:0	48.8	30.3	44.2	74.8	77.4	71.3	121.8	936.6	1405.2
Less PY Adv Proc								6.5	10.1	19.0	116.5	152.1
Plus CY Adv Proc							13.5	12.1	10.0		116.5	152.1
Net Proc (P-1)	0:0	0.0	0.0	48.8	30.3	44.2	88.3	83.0	71.2	102.8	936.6	1405.2
Initial Spares					0.9	2.5	2.6	0.7	1.5	1.3		9.6
Total Proc Cost	0.0	0.0	0.0	48.8	31.2	46.7	6.06	83.7	72.7	104.1	936.6	1414.7
Fiyaway U/C												
Wpn Sys Proc U/C				9.8	6.2	4.7	4.1	3.8	3.3	2.8	3.0	3.2
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support command and control on the move. C2V was developed in response to lessons learned during Operation Desert Storm. It supports the Army components. It will ensure a mobile, responsive, and survivable command and control capability for the heavy force, and it provides the platform to DESCRIPTION: The Command and Control Vehicle (C2V), provides a fully tracked, armored vehicle based on Bradley A2 and MLRS designs and Digitization Effort, incorporating communications and electronic systems compatible with Army Tactical Command and Control systems (ATCCS).

JUSTIFICATION: This program was initiated as a result of deficiencies in existing command and control vehicles identified during Operation Desert Storm. FY99 is the 3rd year of low rate initial production.

A four year multi-year contract is planned for FY00 through FY03.

Exhibit P-40C Budget Item Justification Sheet	em Justification She	Date February 1998	1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	9	COMMAND & CONTROL VEHICLE (G84200)	
Program Elements for Code B Items	Code Other Related		
	٧	PE 0604840A Advanced Command and Control Vehicle	
C2V Advanced Procurement Detail (in Mils):	Fiscal Year 2000	2001 2002 2003	
FY2000 For FY2001 (memo) FY2000 For FY2002 (memo) FY2000 For FY2003 (memo) FY2001 For FY2002 (memo) FY2002 For FY2003 (memo) FY2002 For FY2003 FY2003 (memo)	က္ မ. မ. က မ. မ.	6.5 6.5 5.6 -10.1 10.0 -19.0	·

Exhibit P-5, Weapon WTCV Cost Analysis	<u> </u>	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CN VEHS / 1 Trocket Combet Volkicles	get Activity/S OF WPNS &	Activity/Serial No: WPNS & TRKD CMBT		P-1 Line Item COMMAND &	P-1 Line Item Nomenclature: COMMAND & CONTROL VEHICLE (G84200)	IICLE (G84200)	×	Weapon System Type:		Date: Febru	February 1998
WTCV	₽	ALIO LA	FY 96	1 1011000		FY 97			FY 98			FY 99	
ents	8	TotalCost	ĝ	UnitCost	TotalCost	ģ	UnitCost	TotalCost	Q ÇÎ	UnitCost	TotalCost	ğ	UnitCost
	H	┢┪	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
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Other GFE Mission Module Components Veh Inter/Intra Communication System (VIICS)			•		192 1273 279	വവവ	38 255 56	191 1157 255	വവവ	38 231 51	1256 1908 470		126 191 47
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Exhibit P-5a, Budget Procurement History and Planning   P-1 Lina liam Not liab.   P-1 Lina liam Not liam.   P-1 Liab.   P-1 Lina liam Not liam.   P-1 Liab.   P-1 Liam liam Not liam.   P-1 Liab.   P-1 Liam.   P-								<u></u>	Date:		
Part Intel men No.	Exhibit F	2-5a, Budget Procurement H	istory an	nd Planning					Fe	February 1998	88
Contractor and Location   Contractor and L	Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & THKD CMBT VEHS / 1 / Tracked Combat		Weapon Syster	п Туре:		2-1 Line Item P	Nomenclature:	menclature:	700/ = 101	(0)	
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Per-96   P	WBS Cost Elements:	Contractor and Location	Contract		Award Date	Date of First	ΔŢ	Unit Cost	Specs	Revsn	HFP Issue Date
SS/FFP   TACOM   Dec-96   Apr-98   SS/FFP   TACOM   Dec-97   Apr-99   Apr-00   Apr-09   Apr-09   Apr-00   Apr-09   Apr-00   Apr-09   Apr-00   Apr-09   Apr-00   Apr-09   Apr	Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
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Dec-98   Apr-00		UDLP, York, PA.		TACOM		Apr-99	2	2866		e 2	
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SS/FFP   TACOM   Mar-98   Apr-98   Apr-99   Apr-99   Apr-99   Apr-99   Apr-99   Apr-99   Apr-99   Apr-99   Apr-99   Apr-99   Apr-99   Apr-99   Apr-90   Apr-99   Apr-90   Apr-99   Apr-90   Ap	2 Transmission					• • • • • • • • • • • • • • • • • • • •			-		
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REMARKS: L3 Comm. Sys, Carnden, NJ - L3 Communications Systems, Carnden, NJ FY98: High Vehicle and Transmission cost reflects reduced business base. FY99: Breakout of Primary Power Unit, Environmental control Unit, and Bio Chem Unit.

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Exhibit P-21, Production Schedule

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FY 98 / 99 BUDGET PRODUCTION SCHEDULE	CCT	ION SCI	HEDOI	ш		<del></del>		Ē E	P-1 Item Nomenclature: COMN	IRTUTE: COMMAND & CONTROL VEHICLE (G84200)	ND & C	SONTE	OL VE	HCLE	(G842)	Q				Cage.	ii.			February 1998	1998		
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Item No. 8 Page 8 of 9 67

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FY 98 / 99 BUDGET PRODUCTION SCHEDULE	UCTION S	SHE	DULE					Ö	COMMAND & CONTROL VEHICLE (G84200)	ID & C(	ONTRC	L VEH	CLE (	38420X	_	ı							February 1998	866		
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		Exhibit P-40, Budget	=	tem Justification Sheet	tion Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	:0,					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combal Vehicles	CMBT VEHS / 1 / Tra	icked Combat Vehicle	Š				CA	CARRIER, MOD (GB1930)	30}		
Program Elements for Code B Items:	;6			Code:	Other Related Program Elements:	ım Elements:						
				۷								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	566.7	53.1	43.7	44.7	39.4	54.5	59.4	53.6	73.6	86.1	816.3	1890.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	566.7	53.1	43.7	44.7	39.4	54.5	59.4	53.6	73.6	86.1	816.3	1890.9
Initial Spares	3.5											3.5
Total Proc Cost	570.2	53.1	43.7	44.7	39.4	54.5	59.4	53.6	73.6	86.1	816.3	1894.4
Flyaway U/C												

smoke, mortar, cargo carrier and command & control systems. The fleet is required for the next 20 plus years and must be modified to increase mobility, survivability and DESCRIPTION: The M113 Family of Vehicles (FOV) consists of over 18,000 vehicles, 16 different variants/platforms, in service in U.S. Army units. The M113 FOV is almost one half of the tracked combat vehicle fleet in a mechanized infantry or armor heavy division. The family provides transport for troops, anti-tank, fire direction, to install operational enhancements. Operation Desert Storm (ODS) highlighted the need to improve the mobility and survivability, chemical protection, driver's night vision, fuel system for Command Post Auxiliary Power Units (APU) for the fleet.

## JUSTIFICATION

Wpn Sys Proc U/C

- and BFVS fleet. Internal spall suppression liners, external armored fuel tanks and external armor mounting provisions increase crew survivability. The intent is to convert coupled with a new transmission. This powertrain replaces less reliable components and results in reduced O&S costs while increasing mobility to keep up with the M1 1. BLOCK 1 (A3) MODIFICATION: Provides improvements to enhance mobility and crew survivability. Provides a new 275 Horse Power (HP) turbocharged engine vehicles at depot or contractor facilities to the A3 configuration, in the Department of the Army Master Priority List (DAMPL) sequence.
- 2. CREW CHEMICAL PROTECTION: Provides mounting provisions and hardware and the complete M8, M13 or M14 Nuclear, Biological and Chemical (NBC) System tailored for installation into each M113 variant. The installed system includes blowers, filters, and air line heaters for use with crew issued ventilated face masks. The configuration. The intent is to install the complete system during future A3 conversions. Vehicle conversions will be done in Department of the Army Master Priority List installed system permits vehicle operation in an NBC environment. Prior to FY98 only mounting provisions were installed during vehicle conversions to the A3 (DAMPL) sequence.

Exhibit P-40,

		Exhibit P-40M Budget Item Justification Sheet	m Justifica	1			Date		February 1998		
Appropriation / Budget Activity/Serial No. PROCUREMENT OF V	dget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	/ Tracked Combat Vehicles			P-1 Item Nomenclature	9.	Š	CARRIER, MOD (GB1930)	(0)		
Program Elements for Code B Items	Items		Code	Other Related Program Elements	n Elements						
Description		Fiscal Years									
OSIP NO.	Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	2	lotai
Crew Chemical Protection 1-91-05-4311 Ope	otection Oper Capability	0.5	1.0	1.0	6.0	0.7	0.7	1.0	1.0	21.2	28.0
Block 1	Onor Canability	0760	43.7	7 86	7.2 R	58 7	A 0 A	706	α π	705 1	1 477 0
1-64-1	Oper Capability	6.0.73	1.5	5 6	200	200	2. n		5 6	200	0.774
- Otals		#:773	ŧ	1,000	Ct	t.	0.00			200	0.000,1
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						INDIN	DUAL N	INDIVIDUAL MODIFICATION	ATION							Date		February 1998	1998	
MODIFICATION TITLE: Crew Chemical Protection 1-91-0 MODELS OF SYSTEMS AFFECTED: M113A3, M577A3, M1068A3	Crew AFFECT	Chem ED: M1	Crew Chemical Protection 1-91-05-4311 IFFECTED: M113A3, M577A3, M1068A3	otectic A577A3	n 1-9 , M106	1-05-4 3A3	1311													
DESCRIPTION / JUSTIFICATION: Provides mounting provisions and hardware and the complete M8, M13 or M14 Nuclear, Biological and Chemical (NBC) System tailored for installation into each M113 variant. The installed system include blowers, filters, air line heaters and hoses for use with crew issued ventilated face masks. The installed system permits vehicle operation in an NBC environment. Prior to FY 98 only mounting provisions were installed during vehicle conversions to the A3 configuration. The intent is to install complete system during future A3 conversions. Vehicle conversions to be done in the Department of the Army Master Priority List (DAMPL) sequence.	ication provisi ch M11 nstallec version Departir	ions a 3 varit d'a syste s to the rent of	nd har ant. Ti am per e A3 c i the A	dware ne inst mits v onfigu rmy M	and that alled alled alled retion ration	he cor systen opera . The Priorit	mplete n inclu ttion ir intent y List (	re and the complete M8, M13 or M14 Nu stalled system include blowers, filters, a vehicle operation in an NBC environme guration. The intent is to install complet Master Priority List (DAMPL) sequence.	f13 or wers, f 3C env stall c	M14 N iliters, vironm comple quence	Auclear air line ent. Pite syst	; Biolc heate rior to em du	ogical e ers and FY 98 iring fu	and Chi I hoses only m iture A;	emical for us nountin 3 conv	e and the complete M8, M13 or M14 Nuclear, Biological and Chemical (NBC) System tailored for stalled system include blowers, filters, air line heaters and hoses for use with crew issued ventiliat vehicle operation in an NBC environment. Prior to FY 98 only mounting provisions were installed juration. The intent is to install complete system during future A3 conversions. Vehicle conversio Master Priority List (DAMPL) sequence.	Systen srew iss sions w	n tailor sued ve rere ins	ed for antilate talled versior	p <sub>o</sub> su
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	IS / MAJC	OR DEV	/ELOPN		MILESTONES:	ONES:		PLANNED		AC	ACCOMPLISHED	LISHE								
TDP Available:										ΙĽ	February 92	y 92			1					
Installation Schedule:	Pr Vr		FV 1997		  -		FY 1998	œ	$\mid$		FY 1999		L	Ē	FY 2000			FY 2001	901	
. <b>i</b> –	Totals	-	2	3	4	-	2	3	4	-	2	8	4	-		3 4	F	2	3	4
Inputs Outputs										09	09	09	09 09	54 5	54 54 54 54	54	45	45	45	46
L		FY 2002	Ñ	-		FY 2003	5		-	FY 2004		H	"	FY 2005			2		۲	Totals
1	-	2	3	4	-	2	3	4	-	2	3	4	1	2	3	4 ا	Complete			
Inputs Outputs	50 46	51	51	51	60 51	09 09	09	09	09	09	09	09	09			3391 3391				4711
METHOD OF IMPLEMENTATION: Contract Dates: Delivery Date:	NTATIO		Depot/Contractor FY 1997 FY 1997	ntractor		SININIS	TRATIV F	ADMINISTRATIVE LEADTIME: FY 1998 J FY 1998 C	TIME: Jar Oct	E: 3 January 98 October 98	3 Months 8 8	ths	PRC 1 Y T	PRODUCTION LEADTIME: FY 1999 January 99 FY 1999 October 99	ON LEA	LEADTIME: January 99 October 99	10	Months		

					N	IVIDUAL	- MODIF	INDIVIDUAL MODIFICATION	7						آ ا	Date		February 1998	1998	Γ
MODIFICATION TITLE (Cont):		Cre	Crew Chemical		rotect	Protection 1-91-05-4311	1-05-4	311												
FINANCIAL PLAN: (\$ in Millions)	FV 1996	9																		
	and Prior	ior	FY 1997	266	FY 1998	866	FY 1999	666	FY 2000	000	FY 2001	100	FY 2002	202	FY 2003	203	7	-	TOTAL	ير
	Qty	\$	Qty	\$	Oty	\$	Qty	\$	Qt	s	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Oty Oty	<del>co</del>
RDT&E PROCUREMENT Kit Quantity					240		216		181		203	- 40	240		240		3391		4711	
Installation Kits					) 	9.0	i	9.0	<u> </u>	0.5	}	9.0	1	0.8	2	0.8	}	16.9	:	20.8
Installation Kits, Nonrecurring		<del></del>											•							
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data		0.5		0.		0.4														1.9
Training Equipment																				
Support Equipment																		,		
Interim Contractor Support					-															
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Installation of Hardware																	•			
FY 1996 & Prior Eqpt Kits					·															
FY 1997 Eqpt Kits																				
FY 1998 Eqpt Kits							240	0.3		•									240	0.3
FY 1999 Eqpt Kits				•					216	0.2									216	0.2
FY 2000 Eqpt kits											181	0.1							181	0.1
FY 2001 Eqpt kits													203	0.2		•			203	0.2
FY 2002 Eqpt kits															240	0.5			240	0.2
FY 2003 Eqpt kits									- 0								240	0.2	240	0.2
TC Equip-Kits																	3391	4.1	3391	4.1
Total Installment							240	0.3	216	0.2	181	0.1	203	0.2	240	0.2	3631	4.3	4711	5.3
Total Procurement Cost		0.5		1.0		1.0		0.0		0.7		0.7		1.0		1.0		21.2		28.0

						M	/IDUAL	INDIVIDUAL MODIFICATION	CATIO	z						Date		Febru	February 1998	
MODIFICATION TITLE:	Block 1 1-84-05-4026	1 1-8	4-05-	1026																
MODELS OF SYSTEMS AFFECTED: M113A2, M577	AS AFFECT	ED: M	113A2,	M577	42, M98	11, M10	59, M10	A2, M981, M1059, M1064, M1068, OSV, M58	98, OS	V, M58										
DESCRIPTION / JUSTIFICATION:	<b>IIFICATION</b>	<u></u>																		
Provides improvements to enhance mobility and crew survivability. Provides a new 275 Horse Power (HP) turbocharged engine coupled with a new transmission. This powertrain replaces less reliable components and results in reduced O&S costs while increasing mobility to keep up	ements to	owert	ance r	nobili	ty and	crew a	surviva e con	bility.	Provid	les a r d resul	lew 27.	5 Hors	e Pow	er (HP costs v	) turbo vhile ir	charge screasi	engir	ne coup	oled wit	e d
with the M1 and BFVS fleet. Internal spal	BFVS fle	et.	terna	spall	suppr	essior	liners	, exter	nal arı	mored	fuel ta	ınks ar	nd exte	ırnal aı :	mor m	ountin	I suppression liners, external armored fuel tanks and external armor mounting provisions increase	sions in	crease	
crew survivability. The intent is to convert vehicles at depot or contractor facilities to the A3 configuration, in the Department of the Army Master Priority List (DAMPL) sequence.	y. The in ist (DAMI	tent is PL) se	to co	nvert ce.	vehici	es at c	depot o	r cont	ractor	taciliti	es to ti	ne A3	configu	iration,	in the	Depar	riment o	or the A	Ž.	
DEVELOPMENT STATUS / MA-JOB DEVELOPMENT MILESTONES:	TUS / MAJO	OR DE	VELOF	MENT	MILES	TONES						:								
								PLANNED	S S	∢I	<u>ACCOMPLISHED</u>	PLISE								
IPR Production Decision:	ecision:										May 86	စ္တ								
TDP Available:										-	June 86	9								
Installation Schedule:																				
	Pr Yr		FY 1997	92	-		FY 1998	86			FY 1999	66	_	-	FY 2000		_	4	FY 2001	
	Totals	F	2	3	4	-	2	3	4	-	2	9	4	-	2	၉	4	1 2	3	4
Inputs	379			40	91	154	164	174	155	09	09	09	0 0	54	54	54	54 45 54 54	5 45 4 45	45	46 45
		FY 2002	72			FY 2003	903			FY 2004	40			FY 2005	9		To	c		Totals
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Inputs	20	51	51	51	09	09	09	09	09	9	9	06				2	2168			4645
Outputs	46	20	51	51	51	8	8	09	99	09	90	09	09	_		21	2168			4645
METHOD OF IMPLEMENTATION:	<b>AENTATION</b>		Depot/Contractor	ntract		NIMON	STRATI	ADMINISTRATIVE LEADTIME:	DTIME:			Months	<u>d</u>	PRODUCTION LEADTIME:	JON LE	ADTIME	<u>9</u>	Months	<b>~</b>	
Contract Dates:		Œ Ú	FY 1997 EV 1997	_	March 97	7	u. u	FY 1998 EV 1998		January 98 October 98	86 8		2	FY 1999 FV 1990	San S	January 99 October 99				
Delivery Date:		-	1991		Julie or			1 1000	ı	CIONA	200	١	-	200	3	5000				

					Ĭ	IVIDUA	MODIF	INDIVIDUAL MODIFICATION							ľ	Date		February 1998	y 1998	
MODIFICATION TITLE (Cont):		Blo	왕 1 1	Block 1 1-84-05-4	4026															
FINANCIAL PLAN: (\$ in Millions)	FV 4006	900																		
	and Prior	Prior	F	FY 1997	FY 1998	866	FY 1999	666	FY 2000	8	FY 2001	100	FY 2002	302	FY 2003	5003	ř	21	TOTAL	بر
	Qty	\$	õ	\$	Ωty	ş	Qty	÷	Qty	<del>ss</del>	Oty	\$	Qty	<del>⇔</del>	χį	υĐ	δ	€9	άţ	₩
RDT&E										_										
PROCUREMENT																				
Kit Quantity	2030		304		240		216		181		203		240		240		2168		5822	
Installation Kits		223.4		31.2		25.9		21.1		22.6		25.4		35.8		36.3		339.1		760.8
Installation Kits, Nonrecurring																				
Equipment		3.4				•													-	3.4
Equipment, Nonrecurring																				
Engineering Change Orders								-			-									
Data		40.2		2.0		2.3		3.6		4.3		4.4		4.6		5.0		46.7		113.1
Training Equipment																				
Support Equipment						•			•											
Other																				
Interim Contractor Support											-									
Pre-Conversion								19.5		22.2		14.4		22.1		32.1		290.0		400.3
FDT		0.1		0.1		0.5		1.0	•	0.1		1.0		1.2		1.5		14.0		20.4
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<u> </u>		9.K		c.		5.				<u>.</u>		<u>.</u>		,i		,				99.O
Installation of Hardware													***		<del></del>	. <u> </u>				
FY 1996 & Prior Eqpt Kits	379	7.2	474	9.6															853	17.1
FY 1997 Eqpt Kits					304	8.7			<del></del>					,					304	8.7
FY 1998 Eqpt Kits							240	7.1											240	7.1
FY 1999 Eqpt Kits									216	6.8							., ., .		216	6.8
FY 2000 Eqpt kits											181	5.8							181	5.8
FY 2001 Eqpt kits													203	6.8		_			203	6.8
FY 2002 Eqpt kits															240	7.9			240	7.9
FY 2003 Eqpt kits			_														240			7.9
TC Equip-Kits																	2168			75.9
Total Installment	379	7.2	474		304		240	7.1	216	6.8	181	5.8	203	6.8	240		2408	ı	4645	144.0
Total Procurement Cost		276.9		43.7		38.4		53.6		58.7		52.9		72.6		85.1		795.1		1477.0

	-	Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifice	ation Sheet		<del></del>	Date:		February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tre	cked Combat Vehicle	Sk				FIST	FIST VEHICLE (MOD) (GZ2300)	2300)		
Program Elements for Code B Items:	is:			Code:	Other Related Program Elements:	ım Elements:						
•	0203735A			€								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty					19	22	49	99	09	87	267	595
Gross Cost	372.8	0.0	0.0	0.0	15.6	20.7	43.5	47.4	50.1	62.3	202.1	814.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	372.8	0.0	0.0	0.0	15.6	20.7	43.5	47.4	50.1	62.3	202.1	814.5
Initial Spares												
Total Proc Cost	372.8	0.0	0:0	0.0	15.6	20.7	43.5	47.4	50.1	62.3	202.1	814.5
Fiyaway U/C												
Wpn Svs Proc U/C					æ	æ	o;	æί	æ	7:	æ	

Support Team is attached to a mechanized infantry or armor company and is primarily responsible for developing and executing fire support plans that enable success on the battlefield in vehicles with the same signature, survivability, and mobility as other Bradley DESCRIPTION: The Bradley Fire Support Vehicle (BFIST) integrates Mission Equipment Packages into a Bradley Fighting Vehicle to support heavy maneuver force operations. The BFIST replaces the aging M981 Fire Support Vehicle for fire mission planning, support and execution for maneuver company commanders. The Fire maneuver units.

JUSTIFICATION: The current Fire Support Vehicle M981 was unable to maintain the operational tempo of Bradley /Abrams equipped maneuver forces during Operation Desert Storm (ODS). Additionally, the M981 displayed a number of operational deficiencies and shortcomings remedied by the BFIST design. The BFIST provides synchronization of combined arms operations.

Exhibit P-5, Weapon WTCV Cost Analysis	AP P	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	get Activity/S OF WPNS & Icked Combs	Serial No: & THKD CMBT at Vehicles		P-1 Line Iten FIST	P-1 Line Item Nomenclature: FIST VEHICLE (MOD) (GZ2300)	(GZ2300)	<u>×</u>	Weapon System Type:		Date: Febru	February 1998
al MTCV			FY 96			FY 97			FY 98			FY 99	
Cost Elements co		يد	Qty	UnitCost	TotalCost	Αįσ	UnitCost	TotalCost	Qfy	UnitCost	TotalCost	Qty	UnitCost
	H	000\$	Each	000\$	\$000	Each	\$000	000\$	Each	000\$	000\$	Each	\$000
Hardware Cost 1. Vehicle Upgrade 2. Pre-Mod Depot Maintenance				-				10994	19	579	10209 5969	27	378 221
SUBTOTAL	-							10994			16178		
Non Recurring Production 3. Engineering Contractor 4. Engineering Government 5. Program Management Administration 6. Reimbursable Matrix Support 7. Fielding 8. Refurbish Test Vehicles			COLOR MARKET					2610 418 239 896 438			1790 375 215 804 320 1038		
SUBTOTAL						4000		4601			4542		
TOTAL		<u>-</u>	,					15595			20720		
			400										

Fxhihit	Exhibit P-5a. Budget Procurement History and Planning	listory an	d Planning					Date:	Fahrian 1008	
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		P-1 Line Item Nomenclature:	lomenclature:			Con funda	T
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vahicles						FIST	FIST VEHICLE (MOD) (GZ2300)			
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	ΔTΛ	Unit Cost	Specs Avail		RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	_	Avail	
1. Vehicle Upgrade FY 98	UDLP, York, PA	SS/FFP SS/FFP	USATACOM, Warren, MI USATACOM, Warren, MI	Dec-97 Nov-98	May-99 Jan-00	27	378			
REMARKS:										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE	CT	ION SC	HEDU	Ш			P-1 Item Nomenclature:	omeno	slature	FIST	: FIST VEHICLE (MOD) (GZ2300)	E (MC	9	72300						Date:			ŭ	February 1998	v 1998			
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FY 98 / 99 BUDGET PRODUCTION SCHEDULE	影	TION SC	릷			ļ	┪				j		ŽĮ.	FIST VEHICLE (MOD) (GZZ300)	ည် (၁	22300	ا ِ	ŀ	١		١	4	Ī	Į		-eorua	February 1998	ٳ؞	ŀ
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Appropriation / Budget Activity/Serial No:	I No:					P-1 Item Nomenclature:	.6:					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	OMBT VEHS / 1 / Trak	cked Combat Vehick	88				BFVS	BFVS SERIES (MOD) (GZ2400)	(400)		
Program Elements for Code B Items:				Code:	Other Related Program Elements:	am Elements:						
	:			4								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	503.1	90.2	88.6	113.6	0.09	59.0	1.7	7.4	4.0	7.6	0.0	935.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	503.1	90.2	88.6	113.6	60.0	59.0	1.7	7.4	4.0	7.6	0.0	935.2
Initial Spares												
Total Proc Cost	503.1	90.2	88.6	113.6	0.09	29.0	1.7	7.4	4.0	7.6	0.0	935.2
Flyaway U/C												
Wpn Sys Proc U/C												

A1 to A2 conversion effort increases the vehicle survivability and brings the vehicle up to the current A2 configuration, with the addition of the High Survivability Kit and the DESCRIPTION: The funds appropriated, budgeted, and programmed in this budget line will provide for the procurement and application of modification kits for the Bradley System, and Armor Tiles. One safety mod, the A2 Card Retrofit, will prevent inadvertent TOW missile launch. The A2 ODS Applique(+) modification will integrate Bradley Finder, Position Navigation System, Equipment Restow Improvement, Combat Identification System, Drivers Vision Enhancer and Missile Countermeasure Device. The Fighting Vehicle. The Operation Desert Storm improvements are 6 ECPs which will correct deficiencies identified in Operation Desert Storm and include. Laser Range 600HP power pack. Operational improvements are the Transmission Electronic Controller, the Armament Control Unit Pillow Block, the Vehicle Intercommunications Fighting Vehicles with the Army's Applique computer system to improve situational awareness. Additionally, there is the Presidentially directed HALON Replacement Program. Most of these modifications will be applied concurrently in "blocks" to reduce application cost and inconvenience to the unit.

JUSTIFICATION: The programs in these P-Forms were initiated to meet requirements identified to correct deficiencies identified in Operation Desert Storm and to improve the lethality, survivability, mobility and situational awareness of the Bradley Fighting Vehicle. Reduced Bradley Fighting Vehicle capability, survivability, and mobility and occur if these modifications are delayed or reduced.

Exhi	Exhibit P-40M Budget It	em Justifica	tem Justification Sheet			Date		February 1998		
Appropriation / Budget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	/EHS / 1 / Tracked Combat Vehicles			P-1 Item Nomenclature		BFVSS	BFVS SERIES (MOD) (GZ2400)	400)		
Program Elements for Code B Items		Code	Other Related Program Elements	m Elements						
Possibility	Fiscal Vagre									
Description Classification	EV 1006	EV 1997	EV 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	10	Total
nversion										
1-84-05-4038 Oper. Capability	347.3	16.4	16.8	13.6	0.0	0.0	0.0	0.0	0.0	394.1
A2 ODS Mods										
1-92-05-4404 Oper. Capability	67.2	49.6	28.9	31.9	1.6	0.0	0.0	0.0	0.0	179.2
Electror	(0									
1-90-05-4282 Oper. Capability	5.8	4.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	13.5
ACU Pillow Block Mod										
1-91-05-4314 Oper. Capability	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
Vehicle Intercom System										
1-90-05-4284 Oper. Capability	8.4	3.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	15.3
DECA										
1-93-05-4441 Oper. Capability	11.5	5.7	1.4	2.5	0.0	0.0	0.0	0.0	0.0	21.1
HALON Replacement										
1-92-05-4422 Legisl. Compliance	ce 3.7	0.6	4.7	0.1	0.1	0.0	0.0	0.0	0.0	9.5
Armor Tiles										
1-84-05-4038 Oper. Capability	40.6	32.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.3
A2 Card Retrofit										
1-96-05-4517 safety	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Suite of Survivability Enhancement Systems (No P3a Set)	stems (No P3a Set)									
1-96-05-4514 Oper. Capability	0.0	0.0	0.0	0.0	0.0	7.4	4.0	7.6	0.0	19.0
A2 ODS Applique										
1-98-05-4539 Operational Capability	ability 0.0	0.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	10.9
	400.9	1 1 1 2 8	0		17	7.4	4.0	7.6	0	743.6
lotats	130.0	0.01		2.60			2	2	2	

						INDI	/IDUAL I	INDIVIDUAL MODIFICATION	XATION							Date		February 1998	1998	
MODIFICATION TITLE:	l	2 Col	A1-A2 Conversion 1-84	`n 1-8	4-05-4038	038														
MODELS OF SYSTEMS AFFECTED:	S AFFEC	TED:	M2	M2A1 (IFV)	) / M3A	/ M3A1 (CFV)														
DESCRIPTION / JUSTIFICATION: The BEVS conversion of the A1 configuration to an A2 configuration.	FICATION Sion effe	ort oc	nverts	the A	11 conf	igurati	on to a	In A2 c	onfigu	ration.										
The conversion effort includes:	fort incl	ndes	:			:	•		, -	;	:	;	:	,						
1. High Survivability (HS) Kit which will enhance vehicle survivability through the application of alternate armor and selective use of crew compartment spall liners for increased protection against threat from frontal attack. The HS kit also contains other associated changes such as	ity (HS)	f Forty	vhich v crease	vill ent id prot	tection	vehick	surviv st threa	/ability	throug fronta	ih the Lattac	applic k. The	ation c HS K	of alter it also	'nate a contai	rmor ar	nd select r associa	ive use	of crev	× K	· ·
restowage, swim curtain, IFV firing ports, a	curtain,	F	iring p	orts, a	und M2	40 gu	nd M240 gun upright.	Ħ.										9	) )	}
2. The 600HP power pack, which includes the 600 HP engine and the reliability improved 500-3 Transmission which eliminates the adverse impact of increased vehicle weight on vehicle performance and reliability, resulting from High Survivability changes.	wer pacl	k, wh	ich inc	sludes n vehi	the 60 cle per	0 HP	engine nce an	and th d reliat	e relia oility, r	bility in esultin	mprovig fror	/ed 50( n High	0-3 Tra	ansmis vability	sion wh change	ich elim⊍ ∋s.	inates t	he adv	erse	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	US / MAJ	ORD	EVELO	MENT		MILESTONES			립	PLANNED				A	COMP	ACCOMPLISHED				
Preliminary Design Review:	iew:									Ž										
Critical Design Review:										Z A	_									
Contractor Test and Evaluation:	aluation:									¥ Z	_									
Development Test and Evaluation:	Evaluation	Ë								Ž	_									
Initial Operational Test and Evaluation:	and Evalt	ation:								Ž	_									
IPR Production Decision	c									ဗ္ဗ (	3089				3089	<b>о</b>				
I Dr. Available:										3	3089				3089					
Installation Schedule:									}				-							
	۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲	;	FY 1997	. 1	†	ŀ	FY 1998	- 1	+		FY 1999		+	-	FY 2000			FY 2001		Ĭ
Inputs	938	- 45	42	ه 42	<sup>‡</sup> 42	42	42	ه 4	42	- 4	42	2	-	+	٠	4		7	2	4
Outputs	968	42	42	42	42	45	42	42	42	42	42	42								
								-									ŀ			
		FY 2002	     			FY 2003	ရွ			FY 2004	4			FY 2005	2	_	ဂ္		_	Totals
	=	7	е	4	=	77	6	4	$\frac{1}{1}$	7	က	4	=	7	ဇ	4 Co	Complete			
Inputs Outputs		,																		1358
METHOD OF IMPLEMENTATION:	ENTATIO	İ	Depot Conversion	onversi		NIMO	STRATIV	ADMINISTRATIVE LEADTIME:	TIME:		Σ 9	Months		SODOC	PRODUCTION LEADTIME:	DTIME	12 A	Months		
Contract Dates: Delivery Date:		_ <b>_</b>	FY 1997 FY 1997	~ ~	97 98		tt it	FY 1998 FY 1998					<u> </u>	FY 1999 FY 1999						

TLE (Cont);   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-05-4038   A1-A2 Conversion 1-84-139   A1-A2 Conversi						Z	INDIVIDUAL MODIFICATION	MODIF	ICATION								Date		February 1998	y 1998	
And Prior	MODIFICATION TITLE (Cont):		A1.	A2 Co	nversi	n 1-84	-05-40;	 မ္က													
Indicates the control of the	FINANCIAL PLAN: (\$ in Millions)																				
Opy         \$         Opy         Op		and	996 Prior	7	266	F	866	FY 18	66	FY 20	8	FY 20	101	FY 2002	302	FY 2003	600	77	0	TOTAL	٦
Abonrecurring  Jan 13.6  Jan 13.6  Jan 13.6  Jan 13.9  Jan 13.6  Jan 13.9  Jan 13.6  Jan 13.9  Jan 13.6  Jan 13.6  Jan 13.6  Jan 13.6  Jan 13.6  Jan 13.6  Jan 13.6  Jan 13.6  Jan 14.0  J		Q Šį	\$	Otty	\$	ģ	€	Qty	\$	Q ty	ક	Qty	\$	λį	æ	Qty	s	αţ	↔	Qfy	s
rders 137 45.6 41 1.9 2.5 rders 0.9 1.6 0.8 lders 1.6 36 lders 1.6 1.2 168 16.8 36 lders 1.7 72.1 136 11.2 168 16.8 36 lders 1.5 lders 1	RDT&E PROCUREMENT		115.6																		115.6
urring 1317 45.6 41 1.9 2.5 rders 0.9 2.5 cders 0.9 2.5 cders 0.9 2.5 cders 0.9 cders 0.9 cders 0.9 cders cders 0.9 cders cders 0.8 cders	Kit Quantity Installation Kits										<u> </u>										
rders 1358 187.9 2.5 rders 0.9 1358 187.9 1.9 rders 0.9 2.5 1358 187.9 2.5 1.6 0.8 16.8 36 1.1.2 168 16.8 36 1.1.2 168 16.8 36 1.1.2 168 16.8 36 1.1.2 168 16.8 36 1.1.2 168 16.8 36 1.1.2 168 16.8 36 1.1.2 168 16.8 36 1.1.2 168 16.8 36 1.1.2 168 16.8 36 1.1.2 168 16.8 36 1.1.2 16.8 16.8 36 1.1.2 16.8 16.8 36 1.1.2 16.8 16.8 36 1.1.2 16.8 16.8 36 1.1.2 16.8 16.8 36 1.1.2 16.8 16.8 36 1.1.2 16.8 16.8 36 1.1.2 16.8 16.8 36 1.1.2 16.8 16.8 36 1.1.2 16.8 16.8 36 1.1.2 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8	Installation Kits Nonrecurring									-											
rders 1358 39.2 2.5 rders 0.9 2.5 rders 0.9 2.5	600 HP Engine	1317	45.6		1.9															1358	47.5
rders 0.9 2.5 port 1.6 0.8 port nance 1.6 1.2 168 16.8 36 to 27 72.1 136 11.2 168 16.8 36 41 11.2 168 16.8 36 41 11.2 168 16.8 36 41 11.2 168 16.8 36 41 11.2 168 16.8 36 41 11.2 168 16.8 36 41 11.2 168 16.8 36 41 11.2 168 16.8 36 41 11.2 168 16.8 36 41 11.2 168 16.8 36 41 11.2 16.8 36 41 11.2 16.8 36 41 11.2 16.8 36 41 11.2 16.8 36 41 11.2 16.8 36 41 11.2 11.2 11.2 11.2 11.2 11.2 11.2 1	500-3 Transmission	1358	39.2																	1358	39.5
port nance   1.6   0.8   1.6	High Survivability kits	1358	187.9		2.5															1358	190.4
1.6 0.8 nance  IKits 977 72.1 136 11.2 168 16.8 36	Engineering Change Orders Training Equipment		S																		ò
tance  I Kits 977 72.1 136 11.2 168 16.8 36	Support Equipment																				
hance  1 Kits 977 72.1 136 11.2 168 16.8 36  41	Other		1.6	•	0.8																2.5
nance 1 Kits 977 72.1 136 11.2 168 16.8 36 41	Interim Contractor Support				-											•				-	
1Kits 977 72.1 136 11.2 168 16.8 36 41	Pre-mod Depot Maintenance								6.2			<del></del>									6.2
1 Kils 977 72.1 136 11.2 168 16.8 36 41																					
nor Eqpt - Kits 977 72.1 136 11.2 168 16.8 36 41 41 41 41 41 41 41 41 41 41 41 41 41	Installation of Hardware				,		9	6												ļ	i C
t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits	FY 1995 & Prior Eqpt Kits FY 1997 Eqpt Kits	) 6	1.2/		A		<u>6</u>	8 4	ა ც 4. დ.	<del></del>			•							. 4	3.9
trackits  trackits  trackits  trackits  trackits	FY 1998 Eqpt Kits																				
vt Kits vt Kits vt Kits	FY 2000 Eqpt kits									<del></del>											
11 - Kits	FY 2001 Eqpt kits																		,		
777 004 004 004	FY 2003 Eqpt kits																				
7/ 8/1 13/ 11.2 168 16.8	TC Equip-Kits Total Installment	977	72.1	136	11.2	168	16.8	12	7.3	+	1									1358	107.4
nt Cost 347.3 16.4 16.8 1	Total Procurement Cost		347.3		16.4		16.8		13.6											-	394.1

							/IDI JAI	MODIF	FICATIO	Z							Date	ľ	abrilar	1998	ſ
	1			9																	
MODIFICATION TITLE:	AZ O	N SCI	ods 1	92-05	-4404																
MODELS OF SYSTEM	S AFFEC	.π. Σ	A2A2/M	3 <b>A</b> 2											•						
DESCRIPTION / JUST	<b>IFICATIO</b>	ä																			
Six vehicle improvem	ents (ECI	P's) whi	ch will c	orrect	Jeficien	cies ide	ntified i	In Opera	ation De	sert St	orm. Th	ese incr	rease v	ehicle le	ethality	and sur	vivability	and situ	ational	awaren	ess.
Additionally, included	ın misen r: will giv	TOT ARE	Armore FVS a fi	o Haici ist hiirs	185 TO TU	irther ir	ability a	venicie	survival	ollity. Time red	mired to	aconir	e and k	# p tar	Į.						
b. Position Navigation	System:	Global	Positio	yS guic	stem (G	PS) in	egratine	g hardw	are and	laselfo	alibratii	ng digita	al comp	ass. Th	je Jis will e	snable t	he Bradle	ey comn	nander 1	0	
determine his exact	ocation a	t all tim	es and	Jetermi.	ne the t	neading .	and di	stance t	o any k	cation.											
c. Equipment Restow d. Combat Identificati	Improver on Syster	ment: Ir n (CID)	nproves : Provid	the me es intec	sthod of rration /	stowin nardwa	g intern re for th	al and 6 19 passiv	external	equipm system	ient. that will	provide	e visual	and th	ərmal si	ignature	s detects	able bet	ween di	ound to	
ground vehicles and	rom air to	s ground	<del>ri</del>					-				_				,			•		
e. Driver's Thermal V f. Missile Counterme	iewer: Inc asure Dev	creases /ice: Pro	the driv	er's ab ddition	ility to si	ee thro ction ag	ugh bat jainst a	tlefield (	obscura of anti t	ints suci ank mis	h as du: isiles.	st, fog a	and smo	oke duri	ing nigh	it and d	ay.				
DEVELOPMENT STAT	US / MA	JOR DE	EVELOF			TONES	ļ.,			ACCON.	PLISHE	밁			님	ANNEC				:	
Preliminary Design Rev	/iew:									1	<b>4Q93</b>					4093					
Critical Design Revlew:											2Q94					2094					
Contractor Test and Ev	aluation:									•	3094					3094					
Development Test and	Evaluatic	:E								•	4Q94					1095					
Initial Operational Test	and Eval	uation:								•	1095					1095					
IPR Production Decision	Ę										2095					2095					
Installation Schodule:	AZ ODS Mods 1-92-05-4404  AI CATTON:  Int Before Teach Mods 1-92-05-4404  Int Before Teach Mods 1-92-05-4404  Int Before Teach Mods 1-92-05-4404  Int Before Teach Mods 1-92-05-4404  Int Before Teach Mods 1-92-05-4404  Int Before Teach Mods 1-92-05-4404  Int Before Teach Mods 1-92-05-4404  Int Before Teach Mods Mods 1-92-05-4404  Int Before Teach Mods Mods Mods Mods Mods Mods Mods Mods																				
	Pr Yr		FY 18	16			FY 1	866			F	666			F	2000			FY 2001	<u>8</u>	
	Totals	-	7	၈	4	F	7	က	4	F	7	3	4	-	2			=	7	3	4
Inputs	56	83	93	124	124	95	. 115	\$	147	72	22	68	126					17	17	16	16
Outputs	56	83	8	124	124	95	115	호	147	72	22	8	126	╝				=	4	9	16
		25	٤	f		2	9			2	Ş				100			1			Totala
	-,	<u> </u>		†	,	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֓֓֓֓֡֓֓֡֓֡		†		-		T	[	-[	ı					•	Olais
Innute	- 12	7 7	গ ₹	7 7	1	٧	2	#	1	۷	?	7	-	7				alandu			1493
Outputs	<u>ਨ</u>	4	4	4																	1493
METHOD OF IMPLEM	ENTATIC		Contr/E		ple	NIMO	STRAT	IVE LE	ADTIME	    ;;;	9	Months		PROD	UCTIO	N LEAD	TIME:	12	Months		
Contract Dates:		u.	FY 1997	,	lan 97		_	FY 1998		Jan 98				FY 1999	6	Jan 99					
Delivery Date:		-	FY 1997	,	an 98			FY 1998		Jan 99				FY 1999	္တ	Jan 00		ı			

					N	INIDUAL	MODIF	INDIVIDUAL MODIFICATION	7						٦	Date		Februa	February 1998	
MODIFICATION TITLE (Cont):		A2	A2 ODS Mods	Mods 1	-92-05-4404	-4404														
FINANCIAL PLAN: (\$ in Millions)	L																			
	and Prior	996 Prior	¥	FY 1997	7	1998	FY 1999	666	FY 2000	000	FY 2001	Įģ.	FY 2002	200	FY2	FY 2003	10	S	TOTAL	J-K
	ģ	es.	ģ	s	Q Şt	\$	Q ty	\$	Qty	\$	Qty	æ	άţ	s	Ş.	æ	άţ	<del>G</del>	Ωţγ	↔
RDT&E PROCUREMENT Kit Quantity																				
Installation Kits	069	63.3	415	45.3	215	28.9	173	25.5											1493	163.1
Equipment						•		-												
Equipment, Nonrecuring		1.9																		1.9
Engineering Change Orders																				
Training Equipment																				
Support Equipment		0.2						·												0.2
Other																				
Interim Contractor Support																				
											-									
																		·		
	-																			
Installation of Hardware																				•
FY 1996 & Prior Eqpt Kits	193	1.8	326	4.2															549	0.9
FY 1997 Eqpt Kits							100	ď											120	6.4
FY 1990 Eqpt Nits					_		7	j	116	1,6									116	1.6
FY 2000 Eqpt kits									2	2										
FY 2001 Eqpt kits			NOTE	Applicati	on quan	lities and	costs re	NOTE: Application quantities and costs reflect kits applied by field retrofit only. Costs for ODS application	applied	by field r	etrofit or	nly. Cost	s for OD	Sapplic	ation					
FY 2002 Eqpt kits			during	AO-A2 re	manufac	ture and	A1-A2	during AO-A2 remanufacture and A1-A2 conversion are reflected on their respective P-forms.	n are re	flected or	n their re	3spective	P-form	·s						
FY 2003 Eqpt kits																				
Total Installment	193	1.8	356	4.2			122	6.4	116	19:									787	14.0
Total Procurement Cost		67.2	l	`		28.9		31.9		1.6										179.2

				INDIVI	DUAL A	INDIVIDUAL MODIFICATION	ATION							Date		Februs	February 1998	
MODIFICATION TITLE: Transmission Electri MODELS OF SYSTEMS AFFECTED: M2A2/M3A2	Transmission Electronic Controller (TEC) 1-90-05-4282 FFECTED: M2A2/M3A2	ectroni 13A2	c Cont	roller (	TEC)	1-90-0	5-4282											
DESCRIPTION / JUSTIFICATION:	<u>.</u>																	
The Transmission Electronic Controller (TEC) replaces the hydromechanical transmission control with an electromechanical control. The TEC directly improves transmission maintainability and reliability. The control features of TEC will provide improved acceleration fuel utilization and	nic Contro	iller (TE tainabil	C) replity and	laces	the hy	drome: he con	chanic trol fe	al tran	ismissi of TF(	ion co	ntrol w	ith an impre	electro	mech	EC) replaces the hydromechanical transmission control with an electromechanical control. The TEC illin and reliability. The control features of TFC will provide improved acceleration fuel utilization and	ontrol. Pel utiliz	The T	EC
hot and cold performance, and better low speed maneuverability	, and bette	er low s	beed r	naneu	verabi	ity.			i :	_ 			) 		•			2
DEVEL OBMENT STATIS / MA IOD DEVEL OBMENT	ט פאפו סכ		MII DOTONICO.	ONIE O														
IPR Production Decision: 2Q94 TDP Available: 2Q94	2094			5														
Installation Schedule:																		
Pr Yr	FY 1997	266			FY 1998	8			FY 1999			_	FY 2000		_	FΥ	FY 2001	
Tota		e 2	4 5	- ;	2 2	e 7	4 8	-	2 2	8 2	4 5	-	2	8	4	2	ε	7
Outputs 26	61 61	9	9	9	61	61	0Z 0Z	61	61	61	61	61						
	FY 2002			FY 2003	E	-		FY 2004	4	-		FY 2005		-	T			Totale
-	2 3	4	-	2	3	4	-	2	3	4	-	2	3	4	Complete			
Inputs Outputs	_																	820 820
METHOD OF IMPLEMENTATION:		Contr/depot/field		DMINIS	TRATIV	ADMINISTRATIVE LEADTIME:	TIME		6 Moi	Months	PR	DDUCT	PRODUCTION LEADTIME:	ADTIME	8	Months		
Contract Dates: Delivery Date:	FY 1997 FY 1997		Dec 97 Aug 98		ŒŒ	FY 1998 FY 1998	\$ 6	Dec 98 Aug 99			ቷ ፫	FY 1999 FY 1999						
			,					, 										

					ï	INIDUA	L MODII	INDIVIDUAL MODIFICATION	_						-	Date		Februa	February 1998	
MODIFICATION TITLE (Cont):		Tre	Transmission E	sion Ele	∍ctroni	c Conti	oller (	lectronic Controller (TEC) 1-90-05-4282	90-05	-4282										
FINANCIAL PLAN: (\$ in Millions)			_																	
	<u>}</u>	FY 1996	FY 1997	266	FY 1998	866	ΕΥ	1999	FY 2000	000	FY 2001	100	FY	FY 2002	F	FY 2003		5	TOTAL	Z Z
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qţ	€	δ	\$	ĝ	\$	Qty	€9	Qt	છ	Qty	€9
RDT&E PROCUREMENT Kit Quantity installation Kits	222	ď	256	4 4	234	e.					·								820	13.5
Installation Kits, Nonrecurring	2			ř	3	3													}	
Equipment Equipment, Nonrecuring					-		· <u> </u>													
Engineering Change Orders													<del></del>							
Data				***																
Support Equipment																				
Other																. –				
Interim Contractor Support																				
			NOTE: Applicat	Applicatic	on is buc	Igeted at	s part of	ion is budgeted as part of the A2 ODS program	DS proc	)ram										
Installation of Hardware											,									
FY 1996 & Prior Eqpt Kits																				
FY 1997 Eqpt Kits																				
FY 1998 Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt kits																				
FY 2001 Eqpt kits											_									
FY 2002 Eqpt kits																				
FY 2003 Eqpt kits																				
TC Equip-Kits																	$\int$			
Total Installment										1										
Total Procurement Cost		5.8		4.1		3.6														13.5

					NDN	IDUAL	INDIVIDUAL MODIFICATION	ATION							Date		February 1998	88	Г
MODIFICATION TITLE: '	ACU Pillow Block Mod	ow Bloo	k Mod		1-91-05-4314	4													
MODELS OF SYSTEMS AFFECTED: TOW 2 SUBSY	FECTED	: TOW 2	SUBSY	STEM						·									
DESCRIPTION / JUSTIFICATION:	ATION:													-	i				
This block modification combines 5 class 1 ECPs into a consolidated block ACU package. The ACU is part of the TOW missile launcher.  These modifications will seal against moisture and eliminate pillow block associated damage to the ACU which can result in critical failures of	on comb will seal	ines 5	class 1	ECP:	s into a	consciinate r	olidatec oillow b	block	ACU p	ackaç ed dar	je. The	ACL the	J is pa	rt of the which ca	1 ECPs into a consolidated block ACU package. The ACU is part of the TOW missile launcher. sture and eliminate pillow block associated damage to the ACU which can result in critical failure	issile la in critic	uncher.	es of	
the TOW weapon system package.	stem pa	ckage.		5							) ) )							; }	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	/ MAJOR	DEVELO	PMENT	MILESTONES	TONES					Planned				Acc	Accomplished	힏			
Preliminary Design Review:										٧				Z	A A				
Critical Design Review:										Ą				Z	¥				
Contractor Test and Evaluation:	ıtion:									Ϋ́				Z	¥.				
Development Test and Evaluation:	luation:									¥ Z				2	¥				
Initial Operational Test and Evaluation:	Evaluatio	Ë								¥				2	Y Y				
IPR Production Decision									•	1092				¥	1092				
TDP Available:										ĕ					NA				
Installation Schedule:																			
PrYr	_	Ĕ	FY 1997			FY 1998	98	-		FY 1999		$\dashv$		FY 2000			FY 2001	_	
<u> </u>		$\perp$	က	4	=	7	၈၂	4	=	7	e	4	+	2	4	=	7	8	4
Inputs 18	1874 334 1874 334	334	8 8	99 8	267	266	267	266					<del></del>						
_											1								
[	FΥ	FY 2002			FY 2003	903			FY 2004		-		FY 2005	5		10		Totals	als
	1	2 3	4	1	2	3	4	-	2	က	4	-	2	3	4 Cor	Complete			
Inputs																-			4275
Outputs											-			_				`	4275
METHOD OF IMPLEMENTATION:	'ATION:	Contra	or tea		ADMINI	STRATI	ADMINISTRATIVE LEADTIME:	TIME				Œ	ODOC	PRODUCTION LEADTIME:	DTIME:				
Contract Dates:		FY 1997		Mar 97		TL I	FY 1998	E S	Mar 98			<u> </u>	FY 1999						
Delivery Date:		⊦Y 1997		۷ ۷		֡֡֡	FY 1998	N/A					FY 1999						1

						NDIVIE	UAL M	INDIVIDUAL MODIFICATION	NO.							Date		Februa	February 1998	
MODIFICATION TITLE (Cont):		۷	CU P	ACU Pillow Bloc	ock M	k Mod 1-91-05-4314	1-05-4	314												
FINANCIAL PLAN: (\$ in Millions)			   r																	
	and L	FY 1996 and Prior	<u> </u>	FY 1997	F	FY 1998	F	FY 1999	F	FY 2000	FY	FY 2001	FY	FY 2002	FY2	FY 2003	TC	0	TOTAL	AL
	ğ	8	ð	\$	ğ	*	Oţ.	\$	Qty	\$	Qty	\$	Qty	\$	Qty	s	Qty	\$	Qty	\$
RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1998 Eqpt Kits	4275				0.0	φ	9.0												4275	2.8
FY 2000 Eqpt kits FY 2001 Eqpt kits FY 2002 Eqpt kits FY 2003 Eqpt kits TC Equip-Kits			···																	
Total Installment	1874	1.3	3 1335		0.9	1066	9.6												4275	2.8
Total Procurement Cost		5.	5.8	0	6.0		9.0													7.2

						INDIN	DUAL N	INDIVIDUAL MODIFICATION	ATION							Date		February 1998	1998	
MODIFICATION TITLE:	Vehic	Vehicle Intercom Syst	rcom (	Syster	em 1-90-05-4284	-05-42	84													
MODELS OF SYSTEMS AFFECTED: A2 ODS M2/M3	AFFECT	ED: A2	ODS N	12/M3												1				
DESCRIPTION / JUSTIFICATION:	CATION	L								٠										
The VIS system is a replacement for the AN/VIC-1 intercom system. It is a digital intercom system which provides internal communications as well as access to the vehicle radios. This is a non-developmental item to be applied to the A2 ODS vehicles.	a repla ne vehi	cemer cle rac	nt for t dios. T	he AN his is	MIC-1 a non-	interdevel	som sy opmer	/stem. ntal iter	It is a n to be	digital appli	interconder to the total	om sy he A2	stem v	AN/VIC-1 intercom system. It is a digital intercom system which pro is a non-developmental item to be applied to the A2 ODS vehicles.	orovide es.	s intern	al comr	munica	itions a	as
																				•
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	S / MAJO	OR DEV	/ELOPI	- 1 -	MILESTONES	NES:					PLANNED	ED				ACC	<u>ACCOMPLISHED</u>	SHED		
<u>~</u>	Preliminary Design Review:	y Design	n Revie	.:							Ν						NA			
Ö	Critical Design Review:	sign Re	view:								Ϋ́						¥			
ŏ	Contractor Test and Evaluation:	. Test ar	nd Eval	uation:							Ž						¥			
<u> </u>	Development Test and Evaluation:	ent Tes	t and E	/aluatio	Ë						Ϋ́						¥			-
<u>=</u>	itial Ope	rational	Testar	d Eval	ation:						2095	κ					2095			
<u>.</u>	IPR Production Decision	ction De	ecision								3095	35					3095			
	TDP Available:	able:					ŀ				Ž					2	ΑĀ			
Installation Schedule:	-				$\left.\right $				-											
<u>a.                                    </u>	_ <u> </u> ⊱	-	FY 1997		$\dashv$		FY 1998	<b>8</b>	-		FY 1999		-	-	FY 2000			FY 2001	100	
Tolouts	Totals 26	1 49	2 <del>0</del>	8 8	4 8	- 8	2 2	3	4 88	- 2	2 2 2	က စ္ထ	4 4	105	7	<u>е</u>		N	6	4
Outputs	26	49	49	80	78	38	57	46	88	72	57			105						
l				ŀ				ŀ												
]		FY 2002	2	$\dashv$		FY 2003	03			FY 2004		_		FY 2005			ဥ		•	Totals
	-	7	က	4	-	2	က	4	-	7	ဇ	4	-	2	3	4	Complete			
Inputs Outputs									-											096
METHOD OF IMPLEMENTATION:	TATIO	1	Contractor/Depot	/Depot		MINIS	IRATIV	ADMINISTRATIVE LEADTIME:	TIME:		Q Wo	Months	E	ODUCT	ION LE	PRODUCTION LEADTIME:	9	Months	:	
Contract Dates: Delivery Date:		2 2	FY 1997 FY 1997	žő	Mar 97 Sep 97		£ £	FY 1998 FY 1998	Ma	Mar 98 Sep 98			<u>}</u>	FY 1999 FY 1999						
	l	l				l														1

MODIFICATION TITLE (Cont):   Vehicle Intercom System 1-90-05-4284	N.	INDIVIDUAL MODIFICATION	. MODIF	CATION							Date		February 1998	y 1998	
FY 1996  and Prior  Qty \$ 01ty \$ \$  Cty \$ \$ 01ty \$ \$  S53 8.4 262 3.0		em 1-90	-05-428	4											
Securing   Securing	L														
### Odly \$ Odly \$    Sea	FY 1997	1998	FY 19	66	FY 2000	-	FY 2001	F	FY 2002	FY	FY 2003	15		TOTAL	A.
Nonrecurring nge Orders ant ant or Support APPLICATION SCHEDULED AN Kits	\$ Qiy \$	\$	Qty		Oty \$	Q <sub>t</sub>	\$ /	ģ	ક	Oty	æ	Qty	ક	Qty	ક
oort  APPLICATION SCHEDULED AN															
rders  port  APPLICATION SCHEDULED AN	553 8.4 262 3.0													096	15.3
oort APPLICATION SCHEDULED AN															
bort APPLICATION SCHEDULED AN	0rs														
DOIT  APPLICATION SCHEDULED AN															
port APPLICATION SCHEDULED AN				_	<del></del>										
APPLICATION SCHEDULED AN	Ľ.														
APPLICATION SCHEDULED AN															
Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2002 Eqpt kits FY 2003 Eqpt kits	APPLICATION SCHEDULED AND BUD	GETED A	S PART (			AAM.									
FY 1996 & Prior Eqpt - Kits FY 1997 Eqpt - Kits FY 1998 Eqpt - Kits FY 1999 Eqpt - Kits FY 2000 Eqpt - Kits FY 2001 Eqpt - Kits FY 2002 Eqpt - Kits FY 2002 Eqpt - Kits															٠
FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt Kits FY 2003 Eqpt Kits	- Kits														
FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt Kits FY 2003 Eqpt Kits															
FY 2000 Eqpt kits FY 2001 Eqpt kits FY 2002 Eqpt kits FY 2003 Eqpt kits						<del></del>									
FY 2001 Eqpt kits FY 2002 Eqpt kits FY 2003 Eqpt kits						<del></del> .									
FY 2002 Eqpt kits FY 2003 Eqpt kits															
FY 2003 Eqpt Kits															
TC Equip-Kits															
Total Installment															
Total Procurement Cost 8.4 3.9 3.9	8.4	3.9			_										15.3

					INDIN	DUAL M	INDIVIDUAL MODIFICATION	NOIT						Date		February 1998	88	Γ
MODIFICATION TITLE:	DECA 1-93-05-4441	-93-05	-4441			·												
MODELS OF SYSTEMS AFFECTED: M2A2/M3A2	FFECTED	: M2A2	M3A2															
DESCRIPTION / JUSTIFICATION:	ATION:																	
The DECA is the microprocessor based controller of the turret drive system. It transfers signals from crew and sensor inputs to the appropriate subsystem to execute a specific task. The DECA replaces the Electronic Control Assembly (ECA) and provides built in testing, improved	croproce	essor b	sk. The	ontrolle DECA	r of the replac	turret es the	drive sy Electro	/stem. nic Cor	It trans ntrol As	sfers si ssembl	gnals y (EC/	from cre A) and p	w and s rovides	ontroller of the turret drive system. It transfers signals from crew and sensor inputs to the appro DECA replaces the Electronic Control Assembly (ECA) and provides built in testing, improved	uts to tl sting, ir	he appro nproved	opriate I	Φ
reliability and elimination of mul and turret				gyro.														
DEVELOPMENT STATUS / MAJOR DEVELOPMEN	/ MAJOR	DEVEL	OPMEN.	r MILESTONES:	ONES:				PLA	PLANNED		:	AC	<b>ACCOMPLISHED</b>	SHED			
<u>ā</u>	Preliminary Design Review:	esign R	eview:							Ϋ́								
ŏ	Critical Design Review:	n Revie	ë.							Š								
<u>გ</u>	Contractor Test and Evaluation:	st and I	=valuatio	Ë						Š								
<u> </u>	Development Test and Evaluation:	Test ar	d Evalue	ıtion:						Š								
<u>=</u>	Initial Operational Test and Ev	onal Te	st and Ev	aluation:						ž								
<u> </u>	IPR Production Decision	n Decis	ioi							3089				3089				
TC	TDP Available:						:			3089				3089				
Installation Schedule:																		
ď	Pr Yr	占	FY 1997			FY 1998	3		FY	FY 1999			FY 2000			FY 2001	_	
To To To To To To To To To To To To To T	Totals 1		2 0	4 6	<del>-</del> 8	2 2	8 8	4 88	1 2 27	2 3	4 28	- 4	7	3	-	7	<u>ල</u>	4
Outputs					88	24								-				
	FY	FY 2002			FY 2003	33	_	Ę	FY 2004			FY 2005	305		To		Ţ	Totals
	1	2	3 4	-	2	3	4	-	2	3 4	-	2	3	4 2	Complete			
Inputs													_					841
WETHOO OF IMPLEMENT	TATIONS		9 : 5	7		1	A DAMINICADATIVE A CADEINE:		٥	140.4	],	֡֞֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		A DITINGE	7	Annaha		;
METHOD OF IMPLEMENTATION: Contract Dates:		FY 1997	Contractor & Deport FY 1997 Jan 9	<u>~</u> 5	SIMILINIS		IVE LEAD! FY 1998 FY 1898	Jan 98	ه 2 ه	Months	vo	FX 1999	Jan 99	99 99	<b>2</b>	Monins		
Delivery Date:			18	zeb a/		ב	1330	Se dec	١			288-11	١	se dec			l	7

MODIFICATION TITLE (Cont): FINANCIAL PLAN: (\$ in Millions)					-		INDIVIDUAL INICIAI IOALION	5						1	Date		rebruary 1998	1998	
FINANCIAL PLAN: (\$ in Millions)		DECA	DECA 1-93-05-4	)5-4441															
L	4006	Γ																	
∟ ed	and Prior		FY 1997	-	FY 1998	F	FY 1999	F	FY 2000	FY	FY 2001	FY 2002	002	FY 2	003	5		TOTAL	۲
Qt	ty \$	Ø	Qty \$	g		Ö	*	Qţ	\$	Qty	æ	Qty	÷	Qty \$	\$	Q	æ	Ωţ	€9
RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support	1 450	£.	533	2.5	28	4.1	2	نې دې										841	21.1
APPI	APPLICATION BUDGETED AS	NC	GETED		т оғ 		PART OF A1-A2 CONVERSION AND A2 ODS APPLICATION	N	2 ODS AI	PPLICAT	NO								
Installation of Hardware    FY 1996 & Prior Eqpt Kits    FY 1997 Eqpt Kits    FY 1998 Eqpt Kits    FY 1999 Eqpt Kits    FY 2000 Eqpt Kits    FY 2001 Eqpt Kits    FY 2002 Eqpt Kits    FY 2003 Eqpt Kits    FY 2003 Eqpt Kits																	MANAGER - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Total Installment	1	+	+	+	+	+	-		_										
Total Procurement Cost		11.5		5.7		1.4	2	2.5											21.1

					ľ	DIVIDI	INDIVIDUAL MODIFICATION	DIFICA	NOIT		İ					Date		February 1998	v 1998	
MODIFICATION TITLE:	HALON	HALON Replacement	cemer	nt 1-92	1-92-05-4422	422														
MODELS OF SYSTEMS AFFECTED: Bradley Fighting Vehicle System	IS AFFECTE	D: Brad	ey Figh	ling Vel	icle Sy	stem														
DESCRIPTION / JUSTIFICATION:	IFICATION:													Ĭ						
The Halon replacement program is in response to DOD and Army policy to eliminate the unnecessary release of Halon into the atmosphere.  This program will provide an alternate agent to use in the BFV engine compartment fire extinguishers.	sement pro I provide a	ogram i ın alteri	s in re nate aç	spons yent to	e to D	OD a	nd Arn BFV e	η poli ngine	cy to e compa	limina' urtmen	te the t fire e	unnec	essan	/ relea	se of l	Halon in	ito the	atmos	phere	
·				,				<b>)</b>	-			<b>)</b>								
TATO TIME		į		- 1:		í														
DEVELOPMEN STATUS / MAJOH DEVELOPMEN	US/MAJO	H DEVE	OPME.	_	MILESTONES:	.:														
	Preliminary Design Review:	Design F	feview:								3095	_				1096				
	Ciliical Design neview.	יישרו וועני									4036	_				1097				
	Contractor Test and Evaluation:	Test and	Evaluat	ion:							¥ V					¥				
	Development Test and Evaluation:	nt Test a	nd Eval	uation:							4096									
-	Initial Operational Test and Evaluation:	ational Te	st and I	Evaluat	ion:						Ϋ́					¥				
	IPR Production Decision	tion Deci	sion								2098									
	Approve ECP:	بۆ									2098									
Installation Schedule:																				
	Pr ≺r	Œ	1997			Ŀ	FY 1998			FΥ	FY 1999			FΥ	FY 2000			FY 2001	9	
Innute	Totals	-	2	၈	4	-	2	8	[_	-   6	- 6	$\bot$	1 000	8			=	2	3	4
Outputs								264	8 9			1 812			803	802				
_																				
	۲	FY 2002		_	Ĺ	FY 2003			Œ	FY 2004			Ε¥	FY 2005			To			Totals
	-	2	· 6	4	_	2	3	4	_	2	3	4		2	3 4	Q Q	Complete			
Inputs																				6720
ייין יייין דייין		٦			_			  - 	<u> </u>	-	_ ;	_					7			6/20
METHOD OF IMPLEMENTATION: Contract Dates:	EN LA LON:		Contractor 1 eams FY 1997 N/A	eams N/A	AUK A	NISI T	ADMINISTRATIVE LEADTIME: FY 1998 M	LEADTI 998	ME: Mar 98	ဖ	Months	ဋ	PRODUC FY 1999		PRODUCTION LEADTIME: FY 1999	TIME:	5	Months		
Delivery Date:		FY 1997	266	¥ Ž			FY 1998	866	, Z	2			FY 1999	66						
			Ĭ																	

					Z	DIVIDUA	INDIVIDUAL MODIFICATION	-ICATIO	z							Date		Februa	February 1998	
MODIFICATION TITLE (Cont):		¥	LON	HALON Replacement 1-92-05-4422	∍ment	1-92-0	5-4422													
FINANCIAL PLAN: (\$ in Millions)	į																			
	FY 1996 and Prior	996 Prior	F	FY 1997	FÝ.	1998	FY 1999	666	FY 2000	000	FY 2001	9	FY 2002	902	FΥ2	FY 2003	5	C	TOTAL	AL.
	ğ	8	Öţ	\$	ģ	s	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	aty	\$
RDT&E																				
PROCUREMENT											_									
Kit Quantity																				
Installation Kits					6720	4.4													6720	4.4
Installation Kits, Nonrecurring																				
Equipment																	_			
Equipment, Nonrecurring						0.3														0.3
Engineering Change Orders									•,											
Data		3.7		9.0																4.3
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
		- Citelloton							5	— P	A coring	- A2 con		40.42		NOTE: Installation amounts and nest reflect field retroffs and Analystone accurring during 41.49 conversion A0.49 remainifacture and	τ		-	
	ODS fin	d retrofit	t are ref	ODS field retrofit are reflected on t	their re	energive ra	heir respective P.Forms	). 			- -	- !					1_			
				5			_													
Installation of Hardware	•																			
FY 1996 & Prior Eqpt Kits												,								
FY 1997 Eqpt Kits					160	0.0	2835	0.1	2835	0.1									5830	0.5
FY 1998 Eqpt Kits																				
FY 1999 Eqpt Kits								,												
FY 2000 Eqpt kits																				
FY 2001 Eqpt kits																				
FY 2002 Eqpt kits																				
FY 2003 Eqpt kits										-										
TC Equip-Kits																				
Total Installment					160	0.0	2835	0.1	2835	0.1									5830	0.2
Total Procurement Cost		3.7		9.0		4.7		0.1		0.1										9.2

		Z	INDIVIDUAL MODIFICATION	MODIF	CATION							Date		Febru	February 1998	
MODIFICATION TITLE: Armor Tiles 1-84-05-4038	1-84-05-4038															
MODELS OF SYSTEMS AFFECTED: M2A2(IFV)/M3A2(CFV)	A2(IFV)/M3A2(C	Š														
DESCRIPTION / JUSTIFICATION:																
Armor tiles are one of the High Survivability improvements to the BFVS. The tiles provide increased armor protection for shaped charge threats, including hand held heat and other classes of warheads as specified in the BFVS material need area. There are 5 configurations of	Survivability in tand other c	nprover asses c	nents to f warhe	the Blads	-VS. Ti specifi	he tiles ed in tl	provic he BF\	te incr /S mat	eased terial n	armor leed a	protecter. The	tion fo	r shape 5 con	ed cha figurat	rge ions of	•
tiles covering the vehicle front, sides and turret.	ides and turr	÷.														
DEVELOPMENT STATUS / MAJOR DEVELOPMENT		MILESTONES:	   			딥	PLANNED				ACC	OMPI	ACCOMPLISHED			
Preliminary Design Review:	ה Review:						A A							,		
Critical Design Review:	view:						3090	96				3090				
Contractor Test and Evaluation:	nd Evaluation:						Ϋ́									
Development Test and Evaluation:	and Evaluation						¥ :									
Initial Operational Test and Evaluation: IPB Production Decision	l est and Evalua prision	HOU:					ַלַ כֿ ב	S				2003				
TDP Available:							ŽZ	7				9				
Installation Schedule:																
-	266		FY 1998	ıı	Н		FY 1999		Н	"	FY 2000			占	2001	
Inputs	2	4	7	70	4	+	7	m	4	-	2	m	4	2	3	4
Outputs																
	,															
FY 2002	1	Ŧ	003			FY 2004		$\dashv$	<u> </u>	FY 2005		ſ	To			Totals
1 2	4	-	2	4	-	7	က	4	-	2	е	4	Complete			
Inputs											<del></del>					
OF IMPLEMENTATION:	Troop installed	ADMI	ADMINISTRATIVE LEADTIME:	IVE LEA	DTIME:		6 Mo	Months	PR	DOUCT	ION LE	PRODUCTION LEADTIME:	9	Months	,	
Contract Dates: FY	FY 1997 Sep 97	26		FY 1998					Ŧ	FY 1999						
Delivery Date: FY	FY 1997 Jan 99	66		FY 1998					Ŧ	FY 1999						
						l						l			l	

FINANCIAL PLAN: (\$ in Millions)  FY 1996  And Prior  Gty  RD Gty  SHOCUREMENT  Kit Quantity Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Equipment, Shappent Support Equipment Support Equipment Support Equipment Support Equipment Support Supp	)s 1-84-(	4-05-4038														
A 136 34.3 1 6.3	H															
And Prior and Prior City \$ Qiv \$ Qiv   \$ Qiv	H															
Otty \$ COTO		( 199	Н	(199	FY 2000	000	FY 2001	001	FY 2002	02	FY 2003	903	10	ı	TOTAL	
Nonrecurring 136 34.3 Nonrecurring nge Orders ent ent 6.3	*	Oty \$	ð	€	δţ	₩	ð	မှာ	ð	€	à	\$	à	€	ģ	€9
ation Kits  ation Kits, Nonrecurring nent nent, Nonrecurring sering Change Orders g Equipment t Equipment t Contractor Support  6.3																4.0
ation Kits, Nonrecurring nent, Nonrecurring nent, Nonrecurring sering Change Orders g Equipment rt Equipment	23.5														246	57.7
nent, Nonrecurring earing Change Orders ig Equipment rt Equipment I Contractor Support																
g Equipment  t Equipment  Contractor Support	C.															0.5
g Equipment rt Equipment r Contractor Support	}															;
rt Equipment Contractor Support																
Contractor Support	8.8															15.1
									,-							
Installation of Hardware															-	
FY 1996 & Prior Eqpt Kits					<del></del>											
FY 1998 Eapt Kits	-															
FY 1999 Eqpt Kits																
FY 2000 Eqpt kits																
FY 2001 Eqpt kits	<del> </del>															
FY 2003 Eqpt kits													-			
TC Equip-Kits	+										_					
Total Procurament Cost	32.7	-	-				T	T		T	t		T	T		73.3

			INDIVIDUAL MODIFICATION	_     									Date		Februa	February 1998	
Card	MODIFICATION TITLE: A2 Card Retrofit 1-96-05-4517 MODELS OF SYSTEMS AFFECTED: TOW 2 Surbon (MCS)	5-4517	Misell	Spling	970	tom (N/	0										
DESCRIPTION / JUSTIFICATION:	acceptance of the control of the con	1021)	licema (a		area oys	ווסונו	(2)								:		
card a d mod	The relay/squib circuit card assembly (CCA) controls the power up/power down functions of the MGS and provides indications of missile and launch, flight status and modes of operation. It also generates the PREFIRE and FIRE squib control signals required to launch the missile and	) contro λ. It also	ols the	powe rates	r up/po	ower cares	down f E and	unctio FIRE	ons of tage	the Mo	GS an ol sign	d provi als req	des ind uired to	lications launch	s of miss the mi	sile ssile a	pu
ontrol : o incre	the WIRECUT squib control signal used to cut the missile quidance wires. This mod will add a semiconductor device diode across resistor "R39" on the A2 CCA to increase the speed of discharge for capacitor C21 and to prevent an inadvertent missile launch.	cut the 3 of disc	missil charge	e quid for c	ance v apacito	vires. or C21	This n and t	o prev	II add 'ent ar	a sen inad	nicond verten	uctor d t missil	evice d e launc	iode ac ih.	ross re	sistor	
MAJOR	DEVELOPMENT STATUS / MAJOR DEVELOPMENT!	MILESTONES:	NES:					回	PLANNED				AC AC	COMPL	<b>ACCOMPLISHED</b>		
inary De	Preliminary Design Review:								Ν	_				۷ X			
al Desigr	Critical Design Review:								ž	_				Α'X			
ractor Te	Contractor Test and Evaluation:								Ž	_				A/N			
elopment	Development Test and Evaluation:	:uc							N/A					Z/A			
l Operatic	Б Щ	aluation:							ž	_				Ϋ́			
Productio	IPR Production Decision								5	1096				1096			
TDP Available:						١			위	1096		ì		1096			
Pr Yr	FY 1997			FY 1998	_	$\dashv$	ŀ	FY 1999	6			FY 2000	0		FY	FY 2001	
Totals 1	2	4	- 0g	7 00	e 009	4 601	215	214	214	214	-	7	8	4	2	6	4
		$\exists$	000	000	009	601	215	214	214	214	1						
<u></u>	FY 2002		FY 2003		$\mid$		FY 2004	4	┝		FY 2005	5		To			Totals
1 2	3 4	1	2	8	4	-	2	8	4	-	2	E .	4	Complete	0 0		
																	3258 3258
METHOD OF IMPLEMENTATION:	or tea		ADMINISTRATIVE LEADTIME:	RATIV	E LEAD	TIME:		ω 6	Months		Robuc	TION	PRODUCTION LEADTIME:	~::	Months		
	FY 1997 S FY 1997 N	Sep 97 Nov 97		7 7	FY 1998 FY 1998	e Na B ∃	May 98 Jul 98			Ĺ Ĺ	FY 1999 FY 1999						
	l					I				l		l					

MODIFICATION TITLE (Cont):  FINANCIAL PLAN: (\$ in Millions)  FY 1996  and Prior  City \$\$	900	70 7	7 10	20 90	1 1-96-05-4517													
	A'Z C	AZ Card Hetroli	tronit 1	CO-06-														
	98	EV 1997		FV 1998	٩	FY 1999	F	FY 2000	16	FY 2001	Ę,	FY 2002	FY 2003	5003	101		TOTAL	
	+	of,	H	λ	╁	Oty \$	0	\$	Qt	\$	Qty	\$	Qty	\$	Qty	\$	aty	æ
PHOCUNEMENT Kit Quantity Installation Kits	N.M. 12	3258	0.8							· · · · · · · · · · · · · · · · · · ·							3258	0.8
Installation Kits, Nonrecurring Equipment																		
Equipment, Nonrecurring														•				
Engineering Change Orders Data																		
Training Equipment																		
Support Equipment																		
Orner Interim Contractor Support											•							
									-									
NOTE: Application costs are inc	pplication	costs an	e includ	3d in pro	curemer	luded in procurement unit price.												
Installation of Hardware							. <u> </u>											
FY 1996 & Prior Eqpt Kits														•				
FY 1997 Eqpt Kits		•	-														•	
FY 1998 Eqpt Kits									•									
FY 1999 Eqpt Kits						··												
FY 2000 Eqpt kits																		
FY 2001 Eqpt kits	-																· <del></del> ·	
FY 2002 Eqpt kits																		
FY 2003 Eqpt kits																		
TC Equip-Kits			$\dagger$	+	$\dagger$	-	+	+	+						T			
l Otal Installment		$\frac{1}{1}$	1	+	$\dagger$	+	+	$\frac{1}{1}$	$\downarrow$						T	1		3
Total Procurement Cost			0.8		╢		$-\parallel$		4	$\parallel$								0.0

		INDIVIDI	INDIVIDUAL MODIFICATION	NOIT		:	Date		February 1998	866
MODIFICATION TITLE: A2 ODS Applique 1-98-	A2 ODS Applique 1-98-05-4539	5-4539								
DESCRIPTION / JUSTIFICATION:	L.V. Bradley Fighting V	Vehicle Systems			:					
ODS Vehicle Applique: For Force XXI and the First Digitized Division, the Bradley Infantry vehicles will be integrated with the Army's	For Force XXI and	the First Digit	tized Division	n, the Bra	dley Infantry	vehicles will by	oe integrate	d with the	Army's	
and interfacing the vehicle systems (Bradley Eyesafe Laser Rangefinder and Position/Navigation System) to to applique (+) to provide Laser	systems (Bradley	Eyesafe Las	er Rangefind	ler and Po	osition/Navig	y, keyboald al jation System	to to applic	de Oi ilie d que'(+) to l	orauley I	urrer aser
and an external turnet mounted display for the Bradley commander's awareness while commanding from a "name tag defilade" position.	capability. The bra unted display for th	e Bradley co	variant will a immander's	awarenes	s while com	manding from	a "name ta	squad situa g defilade'	position	areness
interest verticie Applique: Meas with incorperate the Army's enfoaded battle Command Software into the verticle's turret computer to ensure interoperability with FBCB2. PM Bradley jointly with PM Abrams is working a common integration approach that consists of utilizing the GCSS common processor card (Power PC-VME card). This will be an additional processor card for the M2A3 to incorporate EBC.	nzas wiii incorpera 82. PM Bradley join Power PC-VME ca	te the Army stily with PM A rid). This will I	brams is wo be an additic	rking a co	mmon integ	rate the Army's embedded pattle Command Soltware into the Venicle's turret computer to intly with PM Abrams is working a common integration approach that consists of utilizing card). This will be an additional processor card required for the M2A3 to incorporate EBC.	venicie's tur ch that cons M2A3 to in	ret compuists of utili	ter to enszing the EBC.	GCSS
DEVELOPMENT STATUS / MAJOR DEVELOPMENT		MILESTONES:	PLANNED	7	ACTUAL	-  -				
Preliminary Design Review:			7/95		7/95					
Critical Design Review:			96/5		98/L					
IOT&E:			10/99							
MSIII			11/99							
Installation Schedule:	EV 1007	Ú	4 4000		1000		0000		700	,
Totals	1 2 3	4	2 3	4	2 3	4	2 3	4	2	9
Inputs							126	23 23	23	8
- Carpara									3	3
	FY 2002	FY 2003		FY 2004	94	FY 2005	2	To		Totals
-	2 3 4	1 2	3 4	1 2	3 4	1 2	3 4	Complete		
Inputs Outputs										195 195
METHOD OF IMPLEMENTATION:	4: Contractor applied		ADMINISTRATIVE LEADTIME:	ME:	9 Months	PRODUCT	PRODUCTION LEADTIME:	/E: 12	Months	
Delivery Date:	FY 1997		FY 1998			FY 1999	oo unc			

MODIFICATION TITLE (Cont):	•																		
II DI AN: (& in Millions)	∢	2 ODS	A2 ODS Applique 1-98-05-4539	e 1-98-(	)5-453(														
L		Г																	
T E	FY 1996 and Prior	Ā	1997	FY 1998	88	FY 1999	F	FY 2000	F	FY 2001	FY.	FY 2002	FΥ	FY 2003	TC	0	TOTAL	٦	
Qty	49	Qty \$	\$	Qty	H	Oty \$	Ö	\$	ð	\$	ģ	છ	Öţ	ક્ક	Οţ	s	δ	æ	_
RDT&E PROCUREMENT Kit Quantity ODS Installation Kits ODS Nonrecurring A3 Installation Kits A3 Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Interim Contractor Support FY 1996 & Prior Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits	s are incli	ded in p	rocureme	ıt cost.		126	0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										126	7.0 2.9 5.9 5.	
Total Installment																			
Total Procurement Cost							10.9											10.9	_

								Date:				
		Exhibit P-40, Budget	=	tem Justification Sheet	tion Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	ial No:					P-1 Item Nomenciature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS/1/Tra	icked Combat Vehick	SE				HOWITZER, MED S	HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)	6 (MOD) (GA0400)		
Program Elements for Code B Items:	ıs:			Code:	Other Related Program Elements:	ım Elements:						
				٧								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	698.5	226.9	282.0	95.4	72.8	11.3	9.1	5.5	0.1	0.0	9.5	1411.2
Less PY Adv Proc	16.3											16.3
Plus CY Adv Proc	16.3											16.3
Net Proc (P-1)	698.5	226.9	282.0	95.4	72.8	11.3	9.1	5.5	0.1	0.0	9.5	1411.2
Initial Spares	1.6	1.9	2.4	6.4	3.6							15.9
Total Proc Cost	700.1	228.8	284.4	101.8	76.4	11.3	9.1	5.5	0.1	0.0	9.5	1427.1
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

Funds the procurement of approved modifications to the 155MM M109 Self-Propelled Howitzer. The fiscal program identified herein reflects the economies and efficiencies of a competitive multiyear contract strategy. (See detailed description/justification on following exhibit P-3A)

## COOPERATIVE AGREEMENTS:

Production Decision . The system developer, BMY, a Division of Harsco Corporation, was awarded a full scale engineeering development contract in October 1985, and a low rate production contract in September 1990. In April 1993, FMC Corporation (now known as United Defense, Limited Partnership, Paladin Production Division) won a production phase and has been named the M109A6 Paladin. The U.S./Israeli Joint Development Agreement has expired effective with the Paladin Milestone III Full Scale program incorporated already developed items, together with items which were developed under contract, into prototype M109s. DA and MOD supplied their own M109s Ministry of Defense (MOD), agreed to cooperate on a joint development project to improve the M109 Series 155mm Self-Propelled Howitzer in November 1985. This The Government of the United States of America, as represented by the Department of the Army (DA), and the Government of Israel (GOI), as represented by the for prototype work. GOI funding for its share of the program was \$30.7 million over Fiscal Years (FY) 1986-1990. The U.S. Howitzer is currently in the full scale competitive multiyear procurement contract for full scale production of remaining Paladin requirements during FY 1993-1996 programs.

Exhibit P.	Exhibit P-40M Budget Item Justification Sheet	m Justifica	Ition Sheet			Date		February 1998		
Appropriation / Budgat Activity/Serial No. Propriation / Budgat Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	Tracked Combat Vehicles		<u>a.</u>	P-1 Item Nomenclature		HOWITZER, MED S	HOWITZER, MED SP FT 155MM M109AG (MOD) (GA0400)	6 (MOD) (GA0400)		
Program Elements for Code B Items		Code	Other Related Program Elements	1 Elements						
Description	Fiscal Years									
OSIP NO. Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
Howitzer Improvement Program 1-81-05-1002 unclassified	1,207.4	95.4	66.5	11.3	9.1	5.5	0.1	0.0	0.0	1,395.3
Jupon (C										
1-96-05-1003 unclassified	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	9.5	15.8
Totals	1,207.4	95.4	72.8	11.3	9.1	5.5	0.1	0.0	9.5	1,411.1
	4	1000								
			The state of the s							
								·		
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							

INDIVIDUAL MODIFICATION Date	Date	February 1998
MODIFICATION TITLE: Howitzer Improvement Program 1-81-05-1002		
MODELS OF SYSTEMS AFFECTED: Howitzer, MED Sp Ft 155mm M109 Ser (Mod) (MYP)		
DESCRIPTION / JUSTIFICATION:		

Arsenals, respectively, are shipped to the contractor for final integration and assembly, and acceptance testing. The acquisition strategy for FY89/90-FY92 called for sole source Mission Element Need Statement (MENS), approved by the Secretary of Defense in December 1980. The production phase of the program involves a combined effort between Letterkenny Army Depot and the contractor. M109A2/A3 Howitzers from CONUS and OCONUS field units are being shipped to Letterkenny Army Depot. Letterkenny removes traverse mechanism, disassembles the howitzer, reconditions turret components to be reset in the new turret, and overhauls/ modifies the chassis to the Paladin configuration. The M109A6 Paladin, approved for full scale production, has been designed to upgrade the M109A2/A3 Howitzer's responsiveness, effectiveness, survivability; and Reliability, Availability, and Maintainability-Durability (RAM-D). This meets the user's urgent need for a product improved system that satisfies the deficiencies cited in these areas by the contracts. An FY93-FY96 competitive multiyear production contract was awarded to UDLP in April 1993. In April 1997, a contract modification was awarded to the existing The reconditioned turret components, and the overhauled/modified chassis with the new M284 Cannon and M182 Gun Mount manufactured by Watervliet and Rock Island multiyear production contract for an additional 37 M109A6 Paladins. An FY98 contract option for 36 vehicles was awarded in November 1997.

## DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

M109A6 Paladin was approved for Type Classification-Standard and full rate production and deployment. This Milestone III is documented in Acquisition Decision Memorandum decided to merge the Howitzer Extended Life Program (HELP) into the HIP where kits from both programs would be applied to the M109A2/A3 Howitzer. The improved 155mm The M109A6 was approved for entry into full scale development in November 1984. At that time, DA decided to modify M109A2/A3 Howitzers to a HIP configuration. It it was Self-Propelled Howitzer was approved for Type-Classification Low Rate Production (TC-LRP) and designated the M109A6 Howitzer following a Milestone III-A ASARC on 7 February 1990. In March 1993 a Milestone III Pre-ASARC review was chaired by the Assistant Secretary of the Army for Research, Development and Acquisition, and the dated 9 April 1993. The Paladin production program is within schedule and, as of February 1998, successfully fielded 487 M109A6 Howitzers and all associated Items of equipment. All major development milestones for the M109A6 Paladin Howitzer have been successfully completed.

Installation Schedule:																								
	Pr Yr		FY 1997	266			4	FY 1998	8			FY 1999	666			4	FY 2000	0	-		Ŧ	FY 2001		
	Totals	F	2	ന		4	-	2	3	4	+	2	3	7		-	2	3	4	1	7		3	4
Inputs	222	54	54	54	1 54		54	54	53	18														
Outputs	417	49	54	55		55	54	54	54	54	41	18	18	18		6								
		FY 2002	2002			"	FY 2003		_		FY 2004	904			4	FY 2005				To			Totals	S
	1	2	3	4		_	2	3	4	F	2	3	4	,	_	2	3	4	Col	Complete				
Inputs						<u> </u>						-												950
Outputs																	_						<b>.</b>	950
METHOD OF IMPLEMENTATION:	<b>TENTATIC</b>		<b>Depot/Contractor</b>	Sontra	ctor	ADI	INIST	RATIV	ADMINISTRATIVE LEADTIME:	TIME			Months	_	PRC	PRODUCTION LEADTIME:	ONL	EADT	ME:	19	19 Months	s		
Contract Dates:			FY 1997	7	Apr 97	7		₹	FY 1998	Z	Nov 97				FY 1999	666								
Delivery Date:		_	FY 1997	2	Nov 98	86		Ŧ	FY 1998	ي	Jun 99				FY 1999	666								

					S	IVIDUAL	INDIVIDUAL MODIFICATION	ATION						٥	Date		February 1998	1998	
MODIFICATION TITLE (Cont):		운	witzer	Improv	ement	Progran	Howitzer Improvement Program 1-81-05-1002	5-1002											
FINANCIAL PLAN: (\$ in Millions)	Ž	EV 1006																	
	and	and Prior	FY	FY 1997	FY 1998	198	FY 1999	H	FY 2000	F	FY 2001	FY	FY 2002	FY 2003	903	70	-	TOTAL	آ
	ģ	69	ğ	<del>69</del>	Qty		Qty	Ö	\$ \A	Ωţ	\$	Qţ	æ	Qţ	€9	ά	\$	Qty	es.
RDT&E PROCUREMENT		149.4																	149.4
Kit Quantity	877		37		98				<del></del>						<del></del>			920	
						41					= -								
Equipment		698.8		40.1		37.3		0.5		4.9	5,5		0.1						787.2
Equipment, Nonrecurring		233.3		4.5		4.2													242.0
Engineering Change Orders		163.5		20.7	-	10.5		3.3		4.0									198.4
Data		11.7		2.3		0.5													14.5
Training Equipment		14.1		-															4.1
Vehicular Intercom System		9.5		0.4		0.4													10.0
Other		4.4		0.7															5.1
Project Management Admin		9.5		4.7		3.0		2.8		<del></del>									19.7
Fielding		10.0		10.4		8.5		4.5		3.8			-						37.2
Depot Maint Premodification						*******		0.2	<u></u>										0.5
					,														ė.
Installation of Hardware									<del></del>										
FY 1996 & PriorKits (877)	716	53.2	_	9.5			·											877	62.4
FY 1997 Eqpt Kits (37)			37	2.4	Ġ		-											36	.i c
FY 1998 Eqpt Kits (30)					9	ij	• // /											3	į
FY 2000 Eapt kits																			
FY 2001 Eqpt kits															***	.,,			
FY 2002 Eqpt kits																			
FY 2003 Eqpt kits																	-		
TC Equip-Kits	716	53.2	100	11.6	98	1-		+	+	-	_							950	699
Total Procurement Cost	2	=		1	ı	66.5		11.3	  -	1-6	5.5		0.1					L.,	1395.3
oral local and cost																			

					<u>S</u>	VIDUAL	INDIVIDUAL MODIFICATION	ATION							Date		February 1998	1998	
MODIFICATION TITLE:	Chlorofluorocarbon (CF	ıorocaı	pou (C	FC) E	liminat	ion 1-9	C) Elimination 1-96-05-1003	600											
MODELS OF SYSTEMS AFFECTED: M109A6 Paladin	S AFFECTED	% M109	6 Palad	in Howitzer	zer														
DESCRIPTION / JUSTIFICATION	-ICATION:																		
References: DOD Directive 6050.0; DA Policy Letter The previous references mandate the replacement of (CFC) substitute.	ective 6050.0 es mandate t	); DA Po the repla	iicy Lett	of R-12	0-1; AM Freon, 1	C Regul sed in t	200.90-1; AMC Regulation 70-68; Montreal Protocol of 1986. H-12 Freon, used in the current M109A6 Paladin's Microclimatic Conditioning System (MCS), with a non-chlorofluorocarbon	68; Moni it M109/	treal Pro \6 Palad	tocol of lin's Micı	1986. roclimat	ic Cond	itioning	System	(MCS), w	ith a non	n-chlorof	uorocarl	noq
						:													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Request For Proposal - accomplished 3Q FY 97; Vendor Selected 1Q FY 98; Joint Government/Conractor Test and Evaluation -planned 3Q FY 98; IPR Production Decision/Contract Modification - planned 4Q FY 98; and TDP Available - planned 4Q FY 98.	US / MAJOR - accomplish lification - pla	DEVELO ed 3Q F nned 4C	7 97; Ve FY 98;	T MILES Indor Se and TD	MILESTONES dor Selected 10 nd TDP Availat	3: Q FY 98 Ible - pla	); Joint G	ovemme FY 98.	ant/Conr	actor Te	st and E	Evaluati	on -plan	ned 3Q	FY 98; IF	R Produ	ction		
Installation Schedule:																			
	Pr Yr	FY	FY 1997			FY 1998	86	Н		FY 1999		Н	Ĺ	FY 2000			FY 2001	901	
Inputs	Totals	2	3	4	=	2	е	4	20 1	105 1	3 1 1 1 1	4 120	108	N	4	-	N	e	4
									-										
<b></b>	FΥ	FY 2002			FY 2003	903			FY 2004		H	ш	FY 2005		L	2		ř	Totals
	-	2 3	4	1	2	3	4	-	2	ဇ	4	-	2	3	4 Q	Complete			
Inputs Outputs																			365 365
METHOD OF IMPLEMENTATION: Contract Dates:	ENTATION:	MWO Team FY 1997	Team 37		ADMIN	STRATI	ADMINISTRATIVE LEADTIME: FY 1998 J	otiME: Jul		9 Months	ıths	PRC FY	PRODUCTION FY 1999	PRODUCTION LEADTIME: FY 1999	DTIME:	2	Months		
Delivery Date:		FY 1997	72				FY 1998	اۃ	Dec 98			7	FY 1999		l				

					N	INDIVIDUAL MODIFICATION	MODIF	ICATION	7						ם	Date		February 1998	1998	
MODIFICATION TITLE (Cont):		[ပ်	orofluc	rocarb	on (CF	Chlorofluorocarbon (CFC) Elimination 1-96-05-1003	ination	n 1-96-	.05-10(	   										
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996	996	EV 1007	700	EV 1008	Boc	EV 1000	900	EV 2000	2	EV 2001	5	EV 2002	30	FV 2003	600	1	_	TOTAL	_
	Δţ	5 69	λίο	\$	ĝ	€	è	\$	Of A	\$	Q ty	\$	Qty	\$	Qt	€	Oto Oto	\$	Qty	. ↔
RDT&E PROCUREMENT															,					
Kit Quantity Hardware					365	4.7							-	***************************************			549	7.9	914	12.6
Testing						0.0														9.0
Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2002 Eqpt Kits FY 2002 Eqpt Kits FY 2002 Eqpt Kits FY 2002 Eqpt Kits						1.0	257		108								5		365	
TC Equip-Kits				1	$\dagger$	1	1		,		1		1		Ţ		949	0. 0	2 2	0.0
otal Installment Total Procurement Cost					1	6.3	/62		2								2	9.5	<u>+</u>	15.8

								Date:				
		Exhibit P-4	Exhibit P-40, Budget II	tem Justific	em Justification Sheet				Ĭ.	February 1998	8	
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	rē:					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	:MBT VEHS / 1 / Tra	icked Combat Vehik	cles				FAASV PII	FAASV PIP TO FLEET (GA8010)	(GA8010)		
Program Elements for Code B Items:	.;c			Code:	Other Related Program Elements:	am Elements:						
				4								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	56.7	6.6	6.4	23.5	1.9	3.2	0.1	0'0	18.7	0.0	4.6	124.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	56.7	6.6	6.4	23.5	1.9	3.2	0.1	0.0	18.7	0.0	4.6	124.9
Initial Spares												
Total Proc Cost	56.7	9.9	6.4	23.5	1.9	3.2	0.1	0.0	18.7	0.0	4.6	124.9
Fiyaway U/C												
Wpn Sys Proc U/C												
Land Land to the man and the Land the Company of th	1	no jo tuomon	bear bearing		the Monday	tilinations to the Mood and Mood tiple Adillow, American Street Mebiles (See deballed	A Adillon A	omition C.	Joidol/ moun.	lintop and) a	Feel	

DESCRIPTION: Funds the procurement of approved modifications to the M992 and M992A1 Field Artillery Ammunition Support Vehicle (See detailed Description/Justification on the following exhibit P-3A).

Exhibit P-4	Exhibit P-40M Budget Ite	em Justifica	tem Justification Sheet			Date	<u>"</u>	February 1998		
Appropriation / Budget Activity/Serial No. (No Paa Set) PROCUREMENT OF WPNS & TRKO CMBT VEHS / 1 / Tracked Combat Vehicles	racked Combat Vehicles			P-1 Item Nomenclature		FAASV PIR	FAASV PIP TO FLEET (GA8010)	(GA8010)		
Program Elements for Code B Items		_	Other Related Program Elements	am Elements						
		٨					:			
Description	Fiscal Years								- -	
OSIP NO. Classification	FY1996 & Prior	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	1 2	Total
iel Char										
1-93-05-4457 Unclassified	72.5	22.5	0.1	2.9	0.1	0.0	18.7	0.0	0.0	116.8
FAASV Halon Replacement										-
1-94-05-4477 Unclassified	0.4	1.0	1.8	0.3	0.0	0.0	0.0	0.0	4.6	8.1
Totals	72.9	23.5	1.9	3.2	0.1	0.0	18.7	0.0	4.6	124.9
						-				
			•							

																	Ĭ
			NDIN	INDIVIDUAL MODIFICATION	IODIFIC	ATION	Ì						Date		February 1998	1998	
MODIFICATION TITLE: FAASV M	FAASV Materiel Change (A2 Conversion) 1-93-05-4457	nge (A	2 Con	rersion	1-93	-05-44	157										
MODELS OF SYSTEMS AFFECTED:	FAASV M9	992A2															
DESCRIPTION / JUSTIFICATION:																	
The FAASV materiel change encompasses the previously approved FAASV HELP (Howitzer Extended Life Program) and Survivability Materiel Changes. The materiel change incorporates M109 Family of Vehicles improvements into the FAASV in order to maintain a common chassis. These improvements include the Low Heat Rejection/Cold Start	asses the pre s improvemer	viously a	pproved e FAASV	FAASV I	HELP (F	towitzer	Extend	led Life f	Program These	and S improv	urvivab	llity Mate include	ariel Cha the Low	nges. Th Heat Rej	viously approved FAASV HELP (Howitzer Extended Life Program) and Survivability Materiel Changes. The materiel chang Is into the FAASV in order to maintain a common chassis. These improvements include the Low Heat Rejection/Cold Start	l change d Start	Ф
Engine, improved XTG 411-4 Transmission, Reliability, and Maintainability (RAM) improvements to the cooling, electrical, and suspension systems, relocated heater and hydraulic reservoir, stronger fuel cell, and modifications to provide interoperability with the M10946 Paladin Howitzer. The enhancements provided by the materiel change will	nission, Reliat and modifica	ility, and tions to p	Maintain rovide int	ability (Feroperal	AM) im	provement the M1	ents to t	he coolin	ng, electory	trical, a	nd susp	ension s ments p	ystems, rovided	relocated by the ma	heater ar teriel cha	br mge will	
permit the FAASV crew to operate in the same environment as the M109A6 Paladin. This means the operation and maintenance features will be common (i.e. spares, repair	the same en	ironmen	as the N	1109A6 F	aladin.	This m	eans th	e operat	ion and	mainte	nance fe	atures v	will be co	mmon (L.	e. spares,	repair	
parts, special tools, and framility and tree rancy cold scaling and rank reactions will be comparable. The modifications to the reaction of th	ding against I	Depot Ma	intenance	Pre-Mc	difficatio	n pays 1	the Insp	ect and	Repair	Only As	Neces	sary (IR	DAN) up	grade effc	ort. FY99		
represents the first year these funds were transferred from the Operation and Maintenance, Army(OMA) to the procurement appropriation as directed by Program budget Decision (PBD) 21.	were transfer	ed from	ne Opera	ttion and	Mainte	nance, /	Army(O	MA) to t	ne proc	uremer	ıt approg	oriation (	as direct	ed by Pro	gram bud	get	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	EVELOPMEN	IT MILES	TONES:														
Preliminary Design Review:	1QFY9	Ξ.															
Critical Design Review:	4QFY91	Ξ															
Contractor Test and Evaluation:	2QFY93	33															
IPH Production Design:	3QFY93	93															
M992A2 First Delivery:	30FY	93															
M992A2 First Unit Equipped:	30FY9, 10FY9!	4 S															
Installation Schedule:																	
PrYr	FY 1997			FY 1998	8			FY 1999			F	FY 2000			FY 2001	01	
Totals			=	7	ဇ	4	-	7	8	4	=	2	6	4	2	6	4
Inputs 356 33	32 80	27.27	2 7	86 94	63	106	ထ ဟု	26	_~	· · · · · · · · · · · · · · · · · · ·							
FY 2002	002		FY 2003	03	-		FY 2004	4	H		FY 2005			To		ř	Totals
1 2	3	4 1	2	3	4	1	2	3	4	-	2	3	4	Complete			1
Inputs								-						-			789
Outputs				-			1	7	$\frac{1}{2}$	-	1		4				
METHOD OF IMPLEMENTATION:	Field Retrofit	ADMII	ADMINISTRATIVE LEADTIME:	TRATIV	IVE LEAD FV 1998	TIME:		12 Mo	Months	Œ 1	PRODUCT FY 1999	ION LE/	PRODUCTION LEADTIME: FY 1999 N/A	7	Months		
Delivery Date:	FY 1997	April 1998	98	. Œ	FY 1998	Z Z				: ≿	FY 1999	Z Z					
			Ì	l			l			l							

					N	IVIDUAL	MODIF	INDIVIDUAL MODIFICATION							Date		Februa	February 1998	
MODIFICATION TITLE (Cont):		FA	ASV N	<b>fateriel</b>	Chang	le (A2 (	Sonvers	FAASV Materiel Change (A2 Conversion) 1-93-05-4457	93-05	4457									
FINANCIAL PLAN: (\$ in Millions)																			
	FY	FY 1996 and Prior	<u> </u>	FY 1997	FY 1998	866	FY 1999	66	FY 2000	-  8	FY 2001	$\vdash$	FY 2002	-	FY 2003		70	TOTAL	ÄL
	δ	69	Ş	69	Š	49	δţ	t	oty Oth	T	Oty.	a	\$	ğ	\$	Qty	S	Qty	€9
RDT&E PROCUREMENT Kit Quantity Installation Kits	664	42.4		2.3					_,									789	44.7
Engineering Change Orders Project Management Admin		10.2		0.1		<del></del>													10.3
Vehicular Intercom System Fielding		. 6.		9.0		0.1		0.2		0.1									9.1
Depot Maint PreModification Auxiliary Power Unit		;						2.7		<del></del>				0.6					3.3
Installation of Hardware																			
FY 1996 & Prior Equt (664) Kits FY 1997 Eqpt (125) Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits	462	15.4	202 125	8.4 1.5														125	23.8 1.5
FY 2002 Eqpt kits FY 2003 Eqpt kits TC Equip-Kits																			
Total Installment	462		327	9.9					7			-		-	_			789	25.3
Total Procurement Cost		72.5		22.5		0.1		2.9		0.1		$-\parallel$	Ĩ	18.7					116.8

Modification	
Individual	
Exhibit P-3a	

					Z	JIVIDL	AL MO	INDIVIDUAL MODIFICATION	TION							Date		Febru	February 1998	
MODIFICATION TITLE:	FAASV Halon Replace	Halon	Repla .	ceme	ment 1-94-05-4477	4-05	4477													
MODELS OF SYSTEMS AFFECTED:	AFFECTED		FAASV M99	992A2	2															
DESCRIPTION / JUSTIFICATION:	CATION:																			
References: DOD Directive 6050.0; DA Policy Letter 200.0.1; AMC Regulation 70-68; Montreal Protocol of 1986 and Presidential Directive.  These references mandate the replacement of Halon charred fire suppression systems to prevent ozone deplation. A common replacement	Directive	6050.C	DA	Policy ent of	/ Lette	er 200	.0.1; /	AMC R	egulat	ion 70	-68; №	Aontre to pre	al Pro	tocol	of 198	6 and	Presidential Directive.	intial D	irective dagen	e.
agent engine compartment fire extinguishin	artment f	ire exti	nguist	ing sy	/stem	is rec	quired	for 88	5 FAA	SV sy	stems	. FY9	7-99 f	spun	have t	seen a	ig system is required for 885 FAASV systems. FY97-99 funds have been appropriated to begin step	ated to	begin	step
one of the conversion by replacing the life suppression suitable to both Halon and the selected alternate agent.	ion by re- Ion and th	pracing ne sele	the master	re sup Iterna	press te age	ion int.	Stribu	tion sy	stern II	ı e ı	-AAO	libua /	io eu	npari		999 LI	suppression distribution system in the FAASV engine compartment on 666 venicles with one smake agent.	S WILL S	euc	
																	·			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	S / MAJOR	DEVELO	PMEN		MILESTONES	ËŠ														
					PLANNED				ACTUAL:	JAL:										
Preliminary Design Review:	ew:				2QFY98	86			1QFY98	86										
Critical Design Review:	ŀ	L		•	2QFY98	86														
John Government Contractor Test and Evaluation: IPR Production Decision:	actor 1 est 8 1:		ration:		2QFY98 3QFY98	86.6			1QFY98	86/										
TDP Available:					3QFY98	86														
Installation Schedule:																				
آهـ	Pr Yr	ΕY	FY 1997			Ĺ	FY 1998			Œ	FY 1999		Ц	٦	FY 2000			ΕY	FY 2001	
	Totals	1 2	3	4			7	က	4					=	7	e	4	1 2	3	4
Inputs						<del></del>				100 100		244 24	244	197	162	162	161			
	FΥ	FY 2002		Ш	집	FY 2003			Ē	FY 2004		$\sqcup$	"	FY 2005		Н	To			Totals
	-	2 3	4	T		2	ဗ	4	-	2	3	4	-	2	ဇ	4	Complete	6		
Inputs Outputs							··-·													885 688
METHOD OF IMPLEMENTATION:	VTATION:	Unknown	wn		ADM	NISTR	ATIVE	ADMINISTRATIVE LEADTIME:	ME:	6	Months	ths	PR	DUCT	ION LE	PRODUCTION LEADTIME:	9	Months	s	
Contract Dates: Delivery Date:		FY 1997 FY 1997	7. 7.	July 98 Dec 88	ထထ		7 7	FY 1998 FY 1998	July 98 Dec 98	88 86			<u>}</u>	FY 1999 FY 1999	Υ X Z Z	<u>.</u> -				

					Ĭ	NIVIDUA	L MODI	INDIVIDUAL MODIFICATION	_						-	Date		Februa	February 1998	
MODIFICATION TITLE (Cont):		FA	H AS	FAASV Halon Replacement 1-94-05-4477	place	ment 1	-94-05	-4477												
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996	ا	i								ì	700					ľ	Ç	IATOT	
	Otv \$	+	Otv 89	- S	Otv 1998	966	ğ	8661 × ≥	Offy Subo	3	ž į	FY 2001	O St	1 2002 1 2002	o V	ty \$003	è	<del>نه</del>	of vio	₹ \$
RDT&E PROCUREMENT Quantity Kit A			8		88		197												882	
Hardware for Kit A Foolpearing Support				0.3		0.7		0.3												1.3
Data				3		5														
Test		0.4		4.0																0.8
Quantity Kit B				-																
Hardware for Kit B																	882	3.4	882	3.4
									,, -						. , ,		, -			
Installation of Hardware																		. <del></del>	•	
FY 1996 & Prior Eqpt Kits																				
FY 1997 Eqpt (200) Kits					200	0.2													200	0.2
FY 1998 Eqpt (488) Kits					488	0.5								-					488	0.5
FY 1999 Eqpt Kits																				
FY 2000 Eqpt kits																_				
FY 2001 Eqpt kits								-						-		_				
FY 2002 Eqpt kits																				
FY 2003 Eqpt kits																_				
TC Equip-Kits		7															1082	j	1082	1.2
Total Installment					688	0.7											1082		1770	1.9
Total Procurement Cost		0.4		1.0		1.8		0.3										4.6		8.1

		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	at No:					P-1 Item Nomenclature:	:0					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tre	scked Combat Vehicl	se				IMPROVED RECO	IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)	8 MOD) (GA0570)		
Program Elements for Code B Items:	;;			Code:	Other Related Program Elements:	am Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	13	15	24	24	10	15	25	25	34	45	399	,629
Gross Cost	31.2	33.9	54.4	55.5	31.9	38.2	57.4	58.2	8'2/2	101.8	1029.3	1569.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	31.2	33.9	54.4	55.5	31.9	38.2	57.4	58.2	77.8	101.8	1029.3	1569.4
Initial Spares		2.9	1.6	2.0	0.8	2.9	3.2	3.1	4.2	4.2	63.2	88.0
Total Proc Cost	31.2	36.8	56.0	57.5	32.7	41.1	60.5	61.3	82.0	105.9	1092.4	1657.5
Flyaway U/C												
Wpn Sys Proc U/C	2.4	2.3	2.3	2.3	3.2	2.5	2.3	2.3	2.3	2.3	2.6	2.5
DESCRIPTION: The Magan DEDO! II ES is as assessed for	AABOAN UE	20111 50 10 0	b poround a	o bodood III	lippo logoil	ill transferd discont nonneway vacation and with an A frame these where the and a second	phiolo gonda	ao din bom	A from boo	dim coudt m	o pud o do	9000

evacuation, and limited repair of the main battle tank. The FY98 procurement is the first year of full rate production following a Milestone III decision in August 1997. The DESCRIPTION: The M88A2 HERCULES is an armored, full-tracked, diesel-powered, recovery vehicle configured with an A-frame boom, three winches, and a spade. fragments and anti-personnel mines. The vehicle mounts a caliber .50 machine gun for self-protection. The M88A2 HERCULES is capable of performing recovery, The boom has a 35 ton lift capacity and the main winch has a constant pull capacity of 70 tons. The hull is armored for protection against small arms fire, artillery procurement objective for the HERCULES is 629 vehicles.

recover the Army's current main battle tank, the Abrams Tank, without using a second vehicle as a brake vehicle. The present lack of recovery capability has necessitated JUSTIFICATION: The present 56 ton M88A1 is deficient in its ability to safely perform battlefield recovery of vehicles weighing 60 tons or more. The M88A1 cannot safely include the Grizzly, Wolverine, and Crusader. The M88A2 HERCULES will provide the Army this capability. The M88A2 program strategy is to modify the existing M88 recovery vehicle chassis, upgrade the propulsion system to 1050 horsepower, add armor protection, improve winching to 70 tons, improve hoisting to 35 tons, and add a the development of a heavy recovery vehicle to provide a towing capability for vehicles weighing up to 70 tons. Future Army vehicles exceeding the M88A1's capability hydraulic assisted braking system.

Exhibit P-5, Weapon	Γ	Appropriation/ Budget Activity/Serlal No:	get Activity/k	Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:	0016	_	Weapon System Type:		Date:	****
WTCV Cost Analysis		PROCUREMENT OF WPNS & THKD CMB1 VEHS / 1 / Tracked Combat Vehicles	OF WPNS tcked Comb	& TRKD CMB1 at Vehicles		MPHOV	IMPHOVED RECOVERY VEHICLE (M88 MOD) (GA0570)	EMICLE (M88					February 1998
WTCV	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	S	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		000\$	Each	\$000	000\$	Each	000\$	000\$	Each	000\$	000\$	Each	\$000
1. Vehicle Manufacturing - Contractor	∢	45841	24	1910	44421	24	1851	19153	9	1915	28395	15	1893
2. Vehicle Manufacturing - GFE		2193	*24	VAR	2390	*24	VAR	972	10	VAR	1471	*15	VAR
3. Contractor Engineering		1349			3152			3205			3159		
4. Engineering Change Orders		125			318			604			893		
5. Project Management - Core		870			974			1006			1014		
6. Project Management - OGA		1116			1017			1118			1128		
7. Transportation		48			48			23			36		
8. Fielding		873		***	280		4	1192			1052		
9. Testing		1890			959			649					
10. Test Vehicle Refurb		58			1670								
11. Depot Maintenance - Premodification											1027		
12. Congressional Increase (ECP)		•						4000					
TOTAL		54363			55529			31922			38175		
													<u> </u>
									•				
			1										

								Date:		
EXNIBIT	Exhibit P-5a, Budget Procurement History and Planning	History a	nd Planning					υĽ	February 1998	98
Appropriation / Budget Activity/Serial No:	•	Weapon System Type:	эт Туре:		P-1 Line Item	P-1 Line Item Nomenclature:				
Vehicles	11				Σ	PROVED REC	IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)	(мвв мор	(GA0570	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Award Date Date of First	ατν	Unit Cost	Specs	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
1. Vehicle Manufacturing - Contractor										
FY 96	UDLP (1)	SS-FFP		Apr-96	Jul-97	54	1910			Nov-95
FY 97	UDLP	SS-FFP	TACOM	Apr-97	Jul-98	24	1851		•	Nov-96
FY 98	UDLP	SS-FFP	TACOM	Apr-98	Jul-99	10	1915	YES		Nov-97
FY 99	UDLP	SS-FFP	TACOM	Apr-99	Nov-00	15	1893			Nov-98
2 Vehicle Manufacturing - GEE										
EV 06	Verious	Donn/DO Marions	Various			6	αV			
00 71	Validus		Various			7 6	2 2	3 6		
/A 14	Various	Dayliber	Various			7 ·	T (			
FY 98	Various	Redn/PO	Various			10	VAR			
FY 99	Various	Reqn/PO Various	Various			15	VAR			
										-
*********										
							-			
REMARKS: (1) UDLP - United Defense Limited Partnership	artnership									

EV 98 / 99 BIIDGET PRODUCTION SCHEDULE	CTE	S NC	HEDE	ш			<u>;</u>	l Item	P-1 Item Nomenclature: IMPROVED	menciature: IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)		OVER	Y VEH	CLE (A	V88 W	9) (QC	A0570	i			Date	 60			Febru	February 1998	88		
	E			PROC	ACCEP.	BAL	+				FISC	Fiscal Year 96	ar 96				H				f	Fiscal Year 97	Year	6			l	H	_
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COST ELEMENTS	uс	£	m æ >	Each	10CT	AS OF 1 OCT	۲. در ۲۰	z o >	Ово	¬ ∢ Z	т п в	≅ A Ω A G Ω		7 D Z	ا د د	∢ ⊃ ซ	ωшσ	00+	Z O >	¬ ∢ Z	и п в	Σ∢α	4 G G	<b>≥</b> ∢≻	7 D Z	ר ם י	∢ ⊃ ซ	ошο	⊢ш∝
1. Vehicle Manufacturing - Contr							L	L			-	$\vdash$	H				H	$\vdash$	$\vdash$	_	$oxed{\square}$								
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		Exhibit P-4	Exhibit P-40, Budget Ite	em Justifica	m Justification Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	.e.					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tra	cked Combat Vehicl	, se				HEAVY ASSAULT	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)	(MOD) (GZ3250)		
Program Elements for Code B Items:	S:			Code:	Other Related Program Elements:	am Elements:						
				80			64649	49				
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty			2	9	7	6	13	18	22	23	365	465
Gross Cost	0.0	0.0	14.6	51.4	41.3	50.4	68.6	86.5	106.5	116.5	2112.0	2647.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	14.6	51.4	41.3	50.4	68.6	86.5	106.5	116.5	2112.0	2647.8
Initial Spares					0.9	6.0	1.4	1.4	1.8	2.1	36.2	44.6
Total Proc Cost	0.0	0.0	14.6	51.4	42.2	51.3	70.0	87.9	108.3	118.6	2148.2	2692.4
Fiyaway U/C												
Wpn Sys Proc U/C			7.3	8.6	5.9	5.6	5.3	4.8	4.8	5.1	5.8	5.7

operated by a crew of two soldiers and will be employed by Combat Engineer units in both offensive and defensive combined arms operations. Its mission is to provide bearing surface over its entire length. It is launched under armor within five minutes and can be retrieved, from either end, in less than ten minutes. The Wolverine is Package (SEP) Abrams Tank chassis. The bridge is capable of spanning gaps up to 24 meters on both prepared and unprepared abutments and can be placed on a DESCRIPTION: The Wolverine (Heavy Assault Bridge) is a 26 meter (79 feet) Military Load Class 70 bridge transported on a modified M1A2 System Enhancement gap crossing capability for heavy maneuver forces. It is planned to support the Abrams Tank System and the Bradley Fighting Vehicle and is compatible with these systems in mobility and survivability.

increased load capacity to support Military Load Class 70 vehicles and improved mobility, survivability, and logistics compatibility. The Wolverine enhances the Combined increased load carrying capability. The Wolverine will replace the Armored Vehicle Launched Bridge (AVLB) providing increased worldwide gap crossing capabilities, JUSTIFICATION: During Operation Desert Storm, it became evident that the current Army bridging system was deficient in gap spanning capability and required Arms Team's ability to move where it wants, multiplying its combat capabilities. First Unit Equipped will be in FY00 at a quantity of 12 vehicles.

Vehicle Manufacturing - Contractor  Vehicle Manufacturing - ANAD  Vehicle Manufacturing - GFE  Contract Engineering  Engineering Change Orders	Tracked Combat		## FY 97  TotalCost Qly  \$000 Each  32618 (	iu y	(GZ3250) UnitCost	1 7	Oty 03	UnitCost	9	FY 99	
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Engineering Change Orders	22 0		15513			7000			0669		
	0 O					730			950		
6. Project Mgmt Admin - Core	0		844			730			750		
7. Project Mgmt Admin - OGA 890			1204			1260			1160		
8. New Equipment Training					·	340			230		
9. Total Package Fielding											
10. Transportation			10			15			20		
TOTAL 14611			51401	·		41311			50401		

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								Ü	Date:		
	Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	istory an	d Planning					Fel	February 1998	•
Appropriation / Bu	Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		P-1 Line Item Nomenclature:	Vomenclature:				,
PROCOREMENT	OF WE'NS & IAND CMBI VERS/ I/ Hacked Combat Vehicles					뽀	AVY ASSAULT	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)	YS (MOD) (	GZ3250)	
WBS Cost Elements:		Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	αтν	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years			and Type			Delivery	Each	\$000	-	Avail	
1. Vehicle M≀	1. Vehicle Manufacturing - Contractor	General Dynamics Land Sys								-	
FY 96		Lima, Ohio	SS-CPFF TACOM	TACOM	Aug-96		2	5024	YES		
FY 97			SS-CPFF TACOM	TACOM	Dec-96		4	*6199	YES		
FY 97			SS-FFP	TACOM	Jan-98		8	*3911	YES	_	Aug-97
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FY98			_	TACOM	Jan-98		7	3911	YES	_	Aug-97
FY99			M2(1) SS-FFP	TACOM	Nov-98		6	3918	YES		Jul-98
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2. Vehicle M≀	2. Vehicle Manufacturing - ANAD	Anniston Army Depot						·	· · · ·		
FY 97							9**	202			
FY 98							<b>~</b> 0	229			-
n n L							<b>D</b>	799			
3. Vehicle M	3. Vehicle Manufacturing - GFE	Government Furnished Equipment									_
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FY 98								323		_	
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HEMARKS:	*The first four vehicles of the FY97 funds were purchased as an option in Dec 96 on the Aug 96 Pilot Vehicle contract. The unit price is much greater due to the nonrecurring costs to be incompleted and the contract of the	ds were purchased as an option in De	ec 96 on the	is an option in Dec 96 on the Aug 96 Pilot Vehicle contract. The unit price is much greater due to the	ct. The unit	t price is mu	uch greater	due to the nor	nrecurrin	g costs	ed of
	incurred in preparing for production such as rooming costs. The rast z verifies will be incuded in **PM Abrams provided PM Wolverine with two refurblehed chassis for the first two I BIP vehicles.	of as tooling costs. The tast 2 verifier with two refurblehed chassis for the fir	St two I RIP	Juded III III e Jan 30 MTF aw	ત્થાંત થા લાક જ	d mile mile	iice as iiie	rrse buy.			
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EV 98 / 99 BUDGET PRODUCTION SCHEDULE		TION SC	HEDO	ш			₽. ≅	P-1 Item Nomenclature: HEAVY ASS	mencl HEA	nenclature: HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)	AULTE	RIDG	E (HAE	SYS	(MOD)	(GZ32)	<u> </u>			Date:	::			February 1998	199		
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Item No. 16 Page 8 of 8 129

		Exhibit P-4	Exhibit P-40, Budget It	lem Justification Sheet	ation Sheet		***	Date:		February 1998		
Appropriation / Budget Activity/Serial No:	riai No:					P-1 Item Nomenclature:	re:					
PROCUREMEN	IT OF WPNS & TRK	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	acked Combat Vehic	les				ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)	JNCH BRIDGE (AVL	B) (MOD) (GZ3000)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	am Elements:						
				4								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	146.2	0.0	0.0	0.0	0.0	1.0	1.3	1.7	0.0	0.0	0.0	150.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	146.2	0.0	0.0	0.0	0.0	1.0	1.3	1.7	0.0	0.0	0.0	150.3
Initial Spares												
Total Proc Cost	146.2	0.0	0.0	0.0	0.0	1.0	1.3	1.7	0.0	0.0	0.0	150.3
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION: The Armored Vehicle   sunched Bridge (AVI B) is the current authorized etendent account bridge currenting because forces. AVI Be are minutely	Armored V	onice I oloido	had Bridge (	1// B) is the	ourrent autho	rizod etandar	ind the print bri	itaoaai io ook	or boom, for	00 I/V	oro primorily.	popiano

DESCRIPTION: The Armored Vehicle Launched Bridge (AVLB) is the current authorized standard assault bridge supporting heavy forces. AVLBs are primarily assigned to Combat Engineering training and War Reserve sites.

JUSTIFICATION: In order to fully modify the fleet, 35 vehicles, 20% of the Active Component and high priority War Reserve units need modifications. The Armored Top Driver's Night Viewer (DNV) and Smoke Grenade Launcher will improve the tactical maneuvering and operations capability of the AVLB. The DNV will improve the night Loading Air Cleaner and Air Induction System Improvements (Clean Air) will improve the reliability and extend engine life. The other two modifications, the AN/VVS-2 vision capability of the vehicle driver; the Smoke Grenade Launcher allows the AVLB to advance, deploy, and retreat under cover of obscuring smoke in a tactical environment. These vehicle modifications are required on AVLBs to make the vehicles supportable.

	Exhibit P-4	Exhibit P-40M Budget Item Justification Sheet	ım Justifica	ition Sheet			Date		February 1998		
Appropriation / Budget Activity/Serial No. PROCUREMENT OF N	gget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	racked Combat Vehicles			P-1 Item Nomenclature		ARMORED VEH LAI	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)	(MOD) (GZ3000)		
Program Elements for Code B !tems			Code	Other Related Program Elements	ım Elements						
Description		Fiscal Years									
	Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
AVLB Block MOD											
1-97-05-4531	Oper Capability	0.0	0.0	0.0	1.0	1.3	1.7	0.0	0.0	0.0	4.0
Totals		0.0	0.0	0.0	1.0	1.3	1.7	0.0	0.0	0.0	4.0
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Exhibit P-3a Individual Modification

Hillons)  Hillons)  FY 1996  and Prior  GDy \$ GD						2	DIVIDUA	L MOD!	INDIVIDUAL MODIFICATION							3	Date		Februa	February 1998	
FY 1996	MODIFICATION TITLE (Cont):		A	/LB Bk	ock MO	D 1-97	-05-45	31													
Pri 1996    FY 1996   FY 1997   FY 1999   FY 2000   FY 2000   FY 2001   FY 2002   FY 2000     COly S	FINANCIAL PLAN: (\$ in Millions)	L	 	_																	
Oty \$ Cly \$		<u> </u>	1996 1 Prior	<u></u>	1997		866	7	666	FY 2(		F ₹	5	Ę	٥٥٥	ΕŽ	5003	E	C	TOTA	Į.
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Nonrecurring Securring nge Orders ant ant or Support r Eqpt - Kits - Kit	RDT&E PROCUREMENT																				
oort	Kit Quantity							9		20		6								35	
oort oort	Installation Kits								0.3		6.0		0.5				•				1.7
oort 0.7 0.1  Kils 6 0.2  6 0.2  6 0.2  6 0.2  6 0.2  6 0.2  6 0.2  6 0.2  6 0.2  7 0.1	Installation Kits, Nonrecurring																				
- Kilis - Kilis Kilis Kilis	Equipment, Nonrecurring	_																			
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Kils	Data								0.7		0.1		0.2								1.0
Kits 6 0.2 6 0.1 15 9	Training Equipment					•															
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tr-kits tr-kits or-kits or-kits on-kits	FY 2000 Eqpt kits									2	0.1	15	9.0							20	0.7
ont kits  1 kits  1 kits  1 kits	FY 2001 Eqpt kits											0	0.4							6	0.4
ont kitis	FY 2002 Eqpt kits																				
ent 11 0.3 24	FY 2003 Eqpt kits																				
11 0.3 24	TC Equip-Kits																				
-	Total installment									=	0.3	24	<u>0:</u>							35	1.3
2.	Total Procurement Cost								5	-	1.3		1.7								4.0

								Oate.				
		Exhibit P-4	10, Budget It	Exhibit P-40, Budget Item Justification Sheet	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tr	acked Combat Vehicl	sə				M1 ABR	M1 ABRAMS TANK (MOD) (GA0700)	3A0700)		
Program Elements for Code B Items:	S:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	447.6	35.0	50.1	62.9	29.2	53.3	30.4	62.5	97.1	119.9	1348.9	2336.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	447.6	35.0	50.1	62.9	29.2	53.3	30.4	62.5	97.1	119.9	1348.9	2336.9
Initial Spares												
Total Proc Cost	447.6	35.0	50.1	62.9	29.2	53.3	30.4	62.5	97.1	119.9	1348.9	2336.9
Flyaway U/C												
Wpn Sys Proc U/C		:										
DESCRIPTION: This budget line provides for the procurement and installation of modification kits for the Abrams series tank to improve Lethality, Survivability, Safety and Operational Capabilities. Tank Lethality is being improved by the Armament Enhancement Initiative (AEI) and the Embedded Battle Command (EBC). Tank Survivability and Safety improvements include Live Fire Category A (Manual Blaster, Driver's Hatch Ballistic Rime, NBC Fire Warning System (NBCFW), new Hand - Held Fire Extinguishers (HHFE), Improved Gunner's Station (IGS); Battlefield Override (BF/OR), Driver's Viewer Quick Release (DVQR); System Enhancement Package (SEP); and Driver's Hatch Interlock (DHI). Tank Operational improvements include the Precision Lightweight GPS Receiver (PLGR); Pulse - Jet System (PJS); Vehicle Intercommunications System (VIS); External Auxiliary Power Unit (EAPU); M142 Field Upgrades, the	is budget lin and Operat Tank Surviv ection and I new Hand - nhancement	e provides tional Capat ability and Driver's Hatc Held Fire E Package (S	for the proc vilities. Tan Safety impr th Latch); ∐ xtinguishers i≡P); and □	urement and k Lethality i wements in we Fire Cat (HHFE), in river's Hatch tercommunic	d installation is being improlude Live Folude Live Folude Live Folude Cannubroved Gun Interlock (I sations Syste	of modificat roved by the ire Category nmo Door La nner's Station DHI). Tank im (VIS); Ex	ion kits for Armament A (Manual atch Mechar (IGS); Bal Operational ternal Auxilia	the Abrams Enhanceme Blaster, Dri nism, Smoke ttlefield Ove improvemel	series tank ant Initiative ver's / Loade Generator rride (BF/OF nts include 1	to improve (AEI) and 1 ars Hatch B Fuel Line, 1 ars he recision (MIA2 Field)	Lethality, the Embedde sallistic Rims, NBC Fire We Viewer Quick I Lightweight d Upgrades,	ed Battle Turret arning Release GPS the

<u>JUSTIFICATION:</u> The priorities noted here in are consistent with USA Armor School requirements and are structured to meet needs validated by Tank users in training and testing as well as in actions such as Operation Desert Storm (ODS). Degradation of tank warfighting capability and survivability, increased incidents of vehicle damage and crew injuries will occur if these modifications are delayed or deleted.

M1A1-D program and the Mounted Water Ration Heater (MWRH). Finally, there is the Presidentially directed HALON Replacement program (Ozone Depleting Chemical Replacement). These P-Forms also reflect the alignment of most MODS into BLOCKS in order to realize reduced installation costs from

concurrent application.

											I
	Exhibit P	Exhibit P-40M Budget Ite	em Justifica	em Justification Sheet					February-98		
Appropriation / Budget Activity/Serial No. PROCUREMENT OF V	dget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	/ Tracked Combat Vehicles			P-1 item Nomenclature	ē	M1 ABRA	M1 ABRAMS TANK (MOD) (GA0700)	(A0700)		
Program Elements for Code B Items			Code	Other Related Program Elements	am Elements						
Description		Fiscal Years									
	Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
Halon Replacement (HAR) [MOD 1]	(HAR) [MOD 1]										
1-92-05-4411	Environmental	7.4	1.5	2.0	5.3	6.5	9.9	6.8	5.7	5.6	47.4
Driver's Hatch Interlock (DHI) [Mod 2]	k (DHI) [Mod 2]										
1-97-05-4520	Safety	0.0	20.4	6.5	5.8	4.9	0.0	0.0	0.0	39.8	77.4
Vehicle Intercommunications System (VIS) [MOD 3]	cations System (VIS	( [MOD 3]									
1-92-05-4412	Legislative Compl.	27.0	9.9	0.9	5.3	0.7	0.0	0.0	0.0	4.5	50.1
Armament Enhancement Initiative (AEI) [MOD 4]	ent Initiative (AEI)	MOD 4]									
1-89-05-4226	Operational	60.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.5
Precision Lightweight GPS Receiver (PLGR) [MOD 5]	GPS Receiver (PLG	R) [MOD 5]									
1-92-05-4417	Manprint	0.4	0.0	0.5	9.0	9.0	9.0	9.0	9.0	13.4	17.3
Live Fire Category A (LFCA) [MOD 6]	(LFCA) [MOD 6]										
1-89-05-4230	Deficiency Correct.	14.5	5.3	3.5	3.5	3.5	3.3	2.9	2.5	0.3	39.3
Battlefield Override (BF/OR) [MOD 7]	BF/OR) [MOD 7]										
1-89-05-4229	Operational	13.7	2.7	2.1	4.2	1.1	0.8	9.0	0.3	0.0	25.5
Live Fire Category B (LFCB) [MOD 8]	(LFCB) [MOD 8]										
1-94-05-4481	Deficiency Correct.	2.4	1.8	0.8	0.8	0.8	0.7	0.7	9.0	0.0	8.6
Driver's Viewer Quick Release (DVQR) [MOD 9]	Release (DVQR) [i	MOD 9]									
1-92-05-4427	Safety	0.3	0.2	0.3	0.3	0.2	0.0	0.0	0.0	0.0	1.3
Pulse - Jet System (PJS) [MOD 10]	PJS) [MOD 10]										
1-92-05-4475	Operational	29.0	6.7	3.5	2.4	1.5	0.0	0.0	0.0	296.9	340.0
Mounted Water Ration Heater (MWRH) [MOD 11]	Heater (MWRH)	MOD 11]									
1-92-05-4426	Manprint	1.9	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1
System Enhancement Package (SEP) [MOD 12]	t Package (SEP) [N	12j									
1-96-05-4505	Operational	0.0	0.0	0.0	0.0	2.9	46.5	82.8	107.4	655.5	895.1

Exhibit P-40M Budget Item Justification Sheet	dget Iter	n Justific	ation Sheet		Date		L.	February-98		
Appropriation / Budget Activity/Serial No. Propriet WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	nbat Vehicles			P-1 Rem Nomenclature		M1 ABRAMS T	M1 ABRAMS TANK (MOD) (GA0700)	(8		
Program Elemenis for Code B Ilems		900 0	Other Related Program Elements	yram Elements						
Embedded Battle Command (EBC) [MOD 13]										
1-96-05-4516 Operational	0.0	0.0	0.0	0.0	1.0	1.0	1.1	1.0	5.5	9.6
External Auxiliary Pwr Unit (EAPU) [MOD 14] 1-85-05-4057 Operational	0.0	8.0	2.0	0.0	0.0	0.0	0:0	0.0	40.8	50.8
External Auxiliary Pwr Unit Upgrade (EAPUU) [MOD 15]	OD 15]									
1-97-05-4521 Operational	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
l) Buiu										
1-97-05-4524 Safety	0.0	0.0	0.0	4.1	3.3	9.4	0.0	0.0	5.3	13.1
e Extinc										
1-97-05-4525 Safety	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	1.8
M1A2 Field Mods (A2FM) [MOD 18]										
1-97-05-4534 Deficiency Correction	0.0	1.4	6.0	0.2	1.0	2.0	1.0	1.2	6.0	13.7
Matrix Support (MXSP) [MOD 19]										
OSIP NO 20 Operational	0.0	0.5	3 0.5	5 0.5	9.0	9.0	9.0	9.0	3.4	7.3
Prior Year Mod Installation (PYMI) [MOD 20]										
OSIP NO 21 Operational	65.0	4.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	70.4
M1A1-D Integration Kit [MOD 21]										
OSIP NO. 22 Operational	0.0	0.0	0.0	20.3	0.0	0.0	0.0	0.0	271.4	291.7
T-4-1	7	000	000	000	7 00	2	07.4	, ,	1 0/0 /	7 200 0
i Otals	7.122	06.8			50.4	02.3	97.7	6.6	1,040.4	4.020.4

			I
INDIVIDUAL MODIFICATION	Date	February 1998	
MODIFICATION TITLE: Halon Replacement (HAR) [MOD 1] 1-92-05-4411			
MODELS OF SYSTEMS AFFECTED: M1 = 355, IPM1 = 818, M1A1 = 4327, M1A2 = 650 TOTAL RQMT = 6150			
			T

## DESCRIPTION / JUSTIFICATION:

by the 1988 Montreal Protocol in which 93 countries including the U.S.A. agreed to phase out Ozone Depleting Chemicals [ODC's] Compartment due to survivability concerns]. See 1992 DOD directive 6050.9 which establishes the policy on ODC's for the Armed This Modification changes the engine compartment fire supression system in all models of the Abrams tank. This retrofit involves the substitution of a dry powder fire retardant (FM-200) for the Halon 1301 gas currently used. This requirement was mandated including the Halon 1301 used in the Abrams Tank Engine Compartment [Halon 1301 remains authorized for the Abrams Crew Forces and DA letter 200 / 9 which implements that policy within the U.S. Army. The Halon 1301 replacement modification represents the implementation of a Presidential directive.

											ב ב				ACCOMPLIGHT	טבט					
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	OS/M	2 X 2 X 2 X 2 X 3 X 3 X 3 X 3 X 3 X 3 X	VELC	MEN	MILEGIONES	ONES.			<b></b> 1		힑		~1								
	Preliminary Design Review	ary Det	sign Re	view			•	•		1093	ထ				1093	m					
	Critical Design Review	Design	Review			•	•			ğ	4				303ř	₩					
	Contractor Test & Eval.	tor Test	& Eva				,			206	ဖွ				2Q9(	(C)					
	Develop	Development Test & Eval.	est & E	val.				•		3096	စ္တ				4096	(0					
	Initial O	Initial Operational Test & Eva	nal Test	& Eva	<u>.</u> ;			•		2Q6	7				309	_					
	IPA Pro	IPR Production Decision	Decisio	Ë				•		4Q5	7				4097	_					
	Tech. D	Tech. Data Package Available	ckage 4	vailable	•	-	-	•	•	3098	8										
Installation Schedule:																					
	Pr Yr		FY 1997	97	$\vdash$		FY 1998	86			FY 1999	66			FY 2000	000			FY 2001	100	
	Totals	-	2	3	4	-	2	8	4	F	2	3	4	1	2	3	4	1	2	3	4
Inputs				-	<del> -</del>		-		270	300	300	300	300	300	300	300	300	300	300	300	300
Outputs											30	270	270	270	270	270	270	270	270	270	270
		FY 2002	200			FY 2003	93			FY 2004	40			FY 2005	305			То		To	Totals
	F	7	ဧ	4	=	2	3	4	1	2	3	4	1	2	3	4	Co	Complete			
Inputs	300	300	300	300	300	300	300	150	30												6150
Outputs	270	270 270 270	270	270	270	270	270	270	270	270	270	270	180								6150
METHOD OF IMPLEMENTATION: Contr. / Depot Teams ADMINISTRATIVE LEADTIME:	ENTATI	ä	Contr. / L	Jepot T	eams A	DMINIS	STRATI	VE LEA	DTIME		3 1	Months	_	PRODU	PRODUCTION LEADTIME:	LEADT	IME:	4	Months		
Contract Dates:		-	FY 1997	Z	٧/		ш.	FY 1998		APR 98	_		_	FY 1999		APR 99	6				
Delivery Date:			FY 1997	Z	٧/		щ	FY 1998		AUG 98	e			FY 1999		AUG 9	66				

					INDIVIDUAL MODIFICATION	AL MODI	FICATION	Z						Date	19		February 1998	1998	
MODIFICATION TITLE (Cont):		Halon	Halon Replacem	ent	(HAR)	(HAR) [MOD 1]	<del>-</del>	1-92-05-4411	4411										
FINANCIAL PLAN: (\$ in Millions)	EV 1008	Г																	
	and Prior		FY 1997	1	FY 1998	FY	FY 1999	FY 2000	000	FY 2001	=	FY 2002	22	FY 2003	03	5	-	TOTAL	یا
	Oty \$	Qţ	\$	ğ	€9	Qţò	\$	Qty	\$	Qty	\$	Qty	\$	Qty	€9	Q ty	s	Qty	€9
RDT&E				:							-								
Kit Quantity	0		-0	570	0	1080		1080		1080		1080		750		510		6150	
Installation Kits					<u> </u>														
Installation Kits, Nonrecurring													***						
Equipment					2.0		3.9		3.9		4.0		4.1		2.9		2.1		22.9
Equipment, Nonrecurring																			
Engineering Change Orders				<u></u>															•
Engineering & Source Select.		7.4		1.5															8.9
Training Equipment																	-,, -		
Support Equipment																			
Other							-									<del></del>			
Interim Contractor Support																			
															•				
																		<del></del>	
Installation of Hardware																-			
FY 1996 & Prior Eqpt Kits																			
FY 1997 Eqpt Kits													•			_			
FY 1998 Eqpt Kits						570	1.4			···								220	4.1
FY 1999 Eqpt Kits								1080	5.6									1080	2.6
FY 2000 Eapt kits										1080	2.6							1080	2.6
FY 2001 Eqpt kits												1080	2.7			_		1080	2.7
FY 2002 Eapt kits		_												1080	2.8			1080	2.8
FY 2003 Eqpt kits																750	2.1	750	2.1
TC Equip 510 Kits			<u></u>													510	4.	510	1.4
Total Installment						570		1080	2.6	1080	2.6	1080	2.7	1080	2.8	1260	3.5	6150	15.6
Total Procurement Cost		7.4	_	1.5	2.0	0	5.3		6.5		9.9		6.8		5.7	_	5.6		47.4
																			l

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						INDIN	DUAL N	INDIVIDUAL MODIFICATION	TION							Date		February 1998	1998	
MODIFICATION TITLE:	Driver's Hatch Interlock	s Hatc	th Inte	srlock .	(DHI)	[Mod	d 2] 1	2] 1-97-05-4520	4520											
MODELS OF SYSTEMS AFFECTED: M1	S AFFECTE	M	0 "	PM1	= 818 ,	, M1A1	\1 = 4327,	ı	M1A2 = 435	35	TOTAL		RQMT =	5580						
DESCRIPTION / JUSTIFICATION:	FICATION:																			
The Driver's Hatch Interlock (DHI) is a	tch Interk	ock (I	<u> </u>	<u>യ</u> :	SAFEI	ŭ. <u>≻</u>	dificat	on wh	ich pr	ovides	an e	lectror	ic int	erface .	betwe	en the	Drive	SAFETY modification which provides an electronic interface between the Driver's Hatch and	tch ar	. <del>و</del>
the Turret Drive (Hotation) controls. Its	(Rotation	(c)	ntrols lonte	± 2. ₹	purpo	se is	to pre	clude	turret has h	rotatio	וות איוי ייי	le the	drive	rs nat	ch Is	open.	ווי מקונים מקונים	purpose is to preclude turret rotation while the driver's hatch is open. In the recent past o field where the driver has been injured or killed by inadvertantly extending his head	nt pag	۶۲ 
outside the hatch while the turret was	l several h while t	the to	rret	was b	being rotated.	wiler otated	֡֝֟֝֝֟֝֟֝֟֝֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟ ֓֡֡֡֡֡֡֡֡֡֡	HO	mas u Will as	ssure 1	ijureu that si	imilar	accide	ents w	ill not	occur	in the	The DHI will assure that similar accidents will not occur in the future.	ğ .	
Without this funding, the potential exists	ding, the	poter	itial .	exists	for a	for additional	_	driver accidents and / or fatalities.	idents	and /	or fate	alities.								
April 97 contract award shown below is January 98 contract award shown below	ract awa	showr rd sho	wh the	ow is	is M1	MTAZ only. is M1A1 only.	. <u>Ş</u>													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	US / MAJO	R DEV	FLOP		MILESTONES	ONES:			PLA	PLANNED	_		ACC	OMPL	<b>ACCOMPLISHED</b>					
	Preliminary Design Review	y Des	ign R	eview		•	:	:		2096				1093	ဗ					
	Critical Design Review	esign	Revie	~		•	:	:	e -	3096				3094	4					
	Development Test & Eval.	ent Te	st &	Eval.		•	,	:	4	4096				4096	9					
	IPR Production Decision	nction	Decis	ioi		•	1	:	4	4097				4097	7					
	ECP Completed	pleted				•	:	:		1098				1098	æ					
	Tech. Data Package Avail	a Pac	kage	Availa	able	•	:	:		<b>0</b> 38										
Installation Schedule:																				
	Pr Yr		FY 1997	_	Н		FY 1998	_		Ŧ	FY 1999			占	FY 2000			FY 2001	٥	
	Totals	-	2		4	-										4	-	2	က	4
Inputs				375	940	400	400	267	150 14	145 140	0 135	5 135	7 292	291	<u> </u>	201		******		
Sinding			-	3	1						_									
	<u> </u>	FY 2002		_		FY 2003	3		Ĺ.	FY 2004			Ŧ	FY 2005			To		۲	Totals
	-	2	3	4	-	7	3	4	+	5	3	4	-	2	3 4		Complete			
Inputs																	2499			5580
Outputs			-	-		1	$\dashv$	-	_		_	_					ত্র			2280
METHOD OF IMPLEMENTATION:	ENTATION:		itracto	Contractor Install		SINIM	<b>IRATIVE</b>	ADMINISTRATIVE LEADTIME:	Œ	Ø	Months	hs	PRO	OUCTIO	PRODUCTION LEADTIME:	TIME	4	Months		
Contract Dates:		₹	FY 1997	¥	APR 97		Ŧ	FY 1998	AN				FY 1999	666		66				
Delivery Date:		F	FY 1997	₹	AUG 97		Ŧ	FY 1998	MAY	98			FY 1999	666	N N	66				
				İ																

Exhibit P-3a Individual Modification

						AL MOD	INDIVIDUAL MODIFICATION	Σ						Date		Febru	February 1998		_
MODIFICATION TITLE (Cont):		Driver'	s Hatch	Interl	Driver's Hatch Interlock (DHI) [Mod 2] 1-97-05-4520	[W]	od 2] 1	-97-05-	4520										
FINANCIAL PLAN: (\$ in Millions)	FV 1996	F																	
	d Pri		FY 1997	_	FY 1998	FY	FY 1999	FY 2000	000	FY 2001	ğ	FY 2002		FY 2003		10	101	TOTAL	,
	Qty \$	Οţ	у \$	ð	\$	Qty	ક્ક	Qţ	€9	Qţ	€9	Oty 6	თ \$	Qty \$	Ωţζ	\$	Qţ	\$	_
RDT&E PROCUREMENT											<u> </u>								_
Kit Quantity		- 24	2433	~	228	420				•		-			2499	_	5580		
Installation Kits												***							
Installation Kits, Nonrecurring																			
Equipment			<u>—</u>	18.5	2.1	_	4.0									27.3		51.9	<u>C</u>
Equipment, Nonrecurring			•																
Engineering Change Orders				<u>-</u>									,					-	
Data																			
Training Equipment		_																	
Support Equipment												_							
Other (Tst & Source select)													•						
Interim Contractor Support								,											
					····														
											····								
Installation of Hardware																			
FY 1996 & Prior Eapt Kits										. <u></u>									
FY 1997 Eapt Kits			422	0.8 1067		4.4 427	- 89		2.2								2433	6	
EV 1008 Fort : Kits									1 6		<u></u>						-		_
EV 1000 East Kite								9 6	0 a		-						700	n 0	0 0
EV 2000 East - tile				_				2	?										5
EV 2001 Eggt kits									-	-									
EV 2002 East 1:										-									
r r zooz Eqpi Kils	-																		
Ш																			_
I C Equip 2499 Kits		+		_ i				- 1	1				+		2499	1	١	۱	വ
4		1	422	- 1	1067 4.	4.4 427		1165	4.9						2499	9 12.5	5580	24.4	ਚਾ
Total Procurement Cost		$\dashv$	ă	20.4	9	6.5	5.8		4.9							39.6		17.7	का

Modification	
Individual	
Exhibit P-3a	

					INDI	INDIVIDUAL MODIFICATION	MODIF	CATION							Date		February 1998	1998	
MODIFICATION TITLE:	. Vehicle	Vehicle Intercommunications System (VIS)	mmuni	cations	Syste	رج ا	(S)	dob 3	] 1-92	[MOD 3] 1-92-05-4412	112								
MODELS OF SYSTEMS AFFECTED: $M_1 = 0$ , $PM_1 = 0$ ,	IS AFFECTE	D: M1 =	0, IPA	d = 0,	M1A1	M1A1 = 4327, M1A2 = 181	, M1A	Z = 18		TOTAL ROMT		= 4508							
DESCRIPTION / JUSTIFICATION:	IFICATION:																		
The Vehicle Intercommunications System (VIS) is an intercom for inter-crew communications and a connection to a radio for tank to tank direct communications. VIS replaces the AN / VIC - 1 which is technologically obsolete difficult to maintain and susceptible	ercommun	ications	Syste	im (VI)	S) is (S)	an inte	ercom	for in	ter-cre	w con	nmunic pically	cations	and a	ficult to	s System (VIS) is an intercom for inter-crew communications and a connection to a radio for tank.	to a re tain an	adio fo	r tank	<u> </u>
to electronic countermeasures.	untermeas	ures.	VIS is	a sta	te-of-th	ne-art	replac	ement	which	n has	none	VIS is a state-of-the-art replacement which has none of these drawbacks.	se dra	wback	s. Thi	This is a		}	2
Congressionally mandated program. Al	mandatec	progr	am. A	III mile	stones	are	for US	A CEC	OM,	the "/	A" prog	ponent	for th	e VIS	I milestones are for USA CECOM, the "A" proponent for the VIS program. Current funding	E.	urrent 1	funding the	<u>g</u>
Will provide for the retroit of all MTAZ's produced prior to vis availability (balatice of MTAZ's will be litted in production via the MTAZ Upgrade program) and all MTAT's.	tne retroi program)	it of all and al	and all M1A1's.	ord s:	ancea	<u> </u>	5 5	ava ava	apility	(Dala	92	<u>₹</u>		<u>=</u>		onnoid.	Š	<u> </u>	•
DEVELOPMENT STATUS / MAJOR DEVELOPMENT  Development Test & Eval	TUS / MAJOR DEVELOPMENT	R DEVEL	OPMEN 8		MILESTONES:	.,	•	<u>a</u> l .	PLANNED			AC AC	COMPLIS	ACCOMPLISHED					
	Initial Operational Test &	rational	Test &	Eval.	•		•		3094				3094	94					
	IPR Production Decision	rction D	ecision		•			,	4Q94				<u>4</u>	4Q94					
Installation Schedule:		li						-				-					7000		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	֡֝֝֞֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֝֡֝֓֓֓֓֓֡֝֡֓֓֡֡֝֡֓֡֓֡֝֡֓֡֡֝֡֡֝	2 2 2	\		2   1930 2   1930	30	+	-	133	2	4	-	2000	4	F	1	- F	4
Inputs		164 164	٣	19	128	128	128	128	113	113		112	-					<u> </u>	
Outputs		159 159	9 159	159	163	164	48	<u>1</u>	128	128	128	128 1	128 12	128 128	8 67			-	
																-			
	Ш	FY 2002			FY 2003	<u>8</u>			FY 2004	   <sub> </sub>	$\dashv$	"	FY 2005	ŀ	т	P		Ĕ	Totals
	-	2	3 4	-	2	3	4	-	2	8	4	-	7	, Ю	8	Complete			
Inputs					-											322			4508
Outputs							-	_	_		$\dashv$	_	_	_		322			4508
IMPLEMENTATION:	Depot / Contr. Field Teams	ıtr. Field	Teams		ADMINISTRATIVE LEADTIME:	STRATI	VE LEAI	OTIME:		_	Months	PR	DDUCT	PRODUCTION LEADTIME:	OTIME:	4	Months		
Contract Dates:		FY 1997	-0		<u>.</u> -	u. I	FY 1998	<b>≒</b> ∂				ĭ à	FY 1999	S S					
Delivery Date:		FY 1997	/8/	SEP 97		۱	FY 1998	اُ	8 100				6661 11	3	ââ				1

Millions)  FY 1996  and Prior  Qty \$ Q  Curring  curring  22.9  ng  ng  rders  0.2  port  1.7  port  1.7	9 Intercomm FY 1997   C   S55   S.7	PY 1998 Oty \$ 512	A5.1	\$ \$ 9.9	[MOD PY 2000 Oth Street	3] 1-92-	3] 1-92-05-4412 FY 2001	σ	FY 2002 iy \$	QIV PY	FY 2003	1C Oly 12 322	3.9 Oly	TOTAL Gly	ω.
2568 6.2 0.2 0.2 0.5 1.5 0.5	\$	800	ام ا	9;			/ 500		200	Gty Qty	\$ \$	1 1 29	9.6	TOTAL Oty 4508	
Nonrecurring  Tecurrin	\$ \$ 5.7	8	ا ا	9.	502		7 200		7 200	Qty Qty	\$003	1 1 1 29	6.8	101AL	
Oty \$ C C	<del>ه</del> 5.7	<del>\$</del>	0	9.				A TO		λίσ	φ	322 322	3.9	Oty 4508	€
Nonrecurring 25.68 Recurring 0.2 Recurring 0.2 Rent 0.2 Rent 1.7 Rent 1.7 Rent 1.7 Rent 1.7 Rent 1.7 Rent 1.7 Rent 1.7 Rent 1.7 Rent 1.7 Rent 1.7 Rent 1.7 Rent 1.7 Rent 1.7				9.								322		4508	
Nonrecurring 22.9 recurring 0.2 ent 0.2 or Support 0.5 or Support 0.5 Kits 1932 1.5				4.6				<u></u>				322	3.9	4508	•
ourring 22.9 rders 0.2 rders 0.2 port 0.5				9.4									3.9		
22.9 rders 0.2 rders 0.2 port 1.7	5.7	<b></b>	<del>.</del>	4.6									3.9		
ng 0.2 rders 0.2 port 1.7	5.7		<del>-</del> .	4.6									3.9		·····
ng 0.2 0.2 0.2 0.2 0.1 1.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5											_	_		_	42.2
rders 0.2 0.2 port 1.7			_												
0.2 port 1.7 0.5 Kits 1932 1.5					<del></del>			<del> </del>							0.2
1.7 0.5 0.5 Kits 1932 1.5															0.2
1.7 0.5 0.5 Kits 1932 1.5															
1.7 0.5 0.5 Kits 1932 1.5															
0.5 - Kits 1932 1.5		_										•			1.7
Kits 1932 1.5															0.5
Kits 1932 1.5															
1- Kits 1932 1.5			•		·										
t Kits 1932 1.5															
Y 1997 Eqpt Kits	9.0								_					2568	2.4
		655 (	6.0											655	0.9
FY 1998 Eqpt Kits		_	512	0.7										512	0.7
FY 1999 Eqpt Kits					451	0.7								451	0.7
FY 2000 Eqpt kits							-					•			
FY 2001 Eqpt kits															
FY 2002 Eqpt kits					_										
FY 2003 Eqpt Kits TC Equip 322 Kits												322	0.6	322	0.6
Total Installment 1932 1.5 636		655	0.9 512	0.7	451	0.7	_	_				322	9.0	4508	5.3
Total Procurement Cost 27.0	9.9		0.9	5.3		0.7			_				4.5	-	50.1

Modification
Individual
Exhibit P-3a

MODIFICATION TITLE: Armament Enhancement Initiative (AEI) [MOD 4] 1-89-05-4226  MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 4327, M1A2 = 0 TOTAL ROMT = 4327  DESCRIPTION / JUSTIFICATION:  The Armament Enhancement Initiative (AEI) is a high priority program to improve the lethality of the Abrams M1A1 tank fleet by improving the 120mm main armament ammunition and by modifying the fire control system via new ballistic solutions and reticle improving the 120mm main armament ammunition and by M1A2's are receiving this mod in production). The ammunition ungrades	M1A2 = 0 TOTAL RGMT = rity program to improve the odifying the fire control system to Desert Storm. This par muzzle velocity) AEI completed by a Depot Tea completed by a Depot Tea 2Q91 3Q91 3Q91	the lethality of the Abrams M1A1 tank fleet by ystem via new ballistic solutions and reticle nod in production). The ammunition upgrades program also includes the upgrade of the first configuration (the balance of delivered gun is an RIA (Rock Island Arsenal) effort; Reticle am.  ACCOMPLISHED 3Q91 4Q91	IA1 tank fleet by ns and reticle unition upgrades grade of the first elivered gun nal) effort; Reticle
ative nt an	rity program to improve the suffying the fire control syndifying the fire control syndifying the fire control syndifying the fire control syndifying the fire control syndify are receiving this mound by a Deport Deport Tea suppleted by a Deport Tea 2Q91	ne lethality of the Abrams M1/stem via new ballistic solution or in production). The ammu program also includes the upgonfiguration (the balance of de is an RIA (Rock Island Arsen.m.  ACCOMPLISHED 3Q91 4Q91	IA1 tank fleet by ns and reticle unition upgrades grade of the first elivered gun nal) effort; Reticle
cement Initiative ain armament an	rity program to improve the difying the fire control sy A2's are receiving this mon Desert Storm. This par muzzle velocity) AEI oc The Gun Mount upgrade in ompleted by a Depot Tea 2091	ne lethality of the Abrams M1/stem via new ballistic solution od in production). The ammu program also includes the upg onfiguration (the balance of de is an RIA (Rock Island Arsen: m.  ACCOMPLISHED 3Q91 4Q91	A1 tank fleet by ns and reticle unition upgrades grade of the first elivered gun nal) effort; Reticle
The Armament Enhancement Initiative (AEI) is a high priority program to improving the 120mm main armament ammunition and by modifying the fire control change to allow the tank to accept the new rounds (All M142)'s are receiving this	rity program to improve the diffying the fire control system A2's are receiving this most on Desert Storm. This per muzzle velocity) AEI octor The Gun Mount upgrade it ompleted by a Depot Teatomplet	te lethality of the Abrams M1.  stem via new ballistic solution and in production). The ammu  program also includes the upg priguration (the balance of de is an RIA (Rock Island Arsen m.  ACCOMPLISHED 3Q91 4Q91	IA1 tank fleet by as and reticle unition upgrades grade of the first elivered gun aal) effort; Reticle
improving the 120mm main armament ammunition and by modifying the fire control change to allow the tank to accept the new rounds (All M142's are receiving this	Az's are receiving this moon Desert Storm. This pon Desert Storm. This pon Desert Storm. This pon muzzle velocity) AEI oc The Gun Mount upgrade ompleted by a Depot Tea 2091	stem via new ballistic solution od in production). The ammu program also includes the upg infiguration (the balance of de is an RIA (Rock Island Arsenam.  ACCOMPLISHED 3Q91 4Q91	ns and reticle unition upgrades grade of the first elivered gun nal) effort; Reticle
	on Desert Storm. This par muzzle velocity) AEI con The Gun Mount upgrade of the Gun Mount upgrad	intiguration (the balance of de shiftiguration (the balance of de is an RIA (Rock Island Arsen) m.  ACCOMPLISHED 3Q91 4Q91	grade of the first elivered gun
will significantly improve kill ratios in actions such as Operation Desert Storm. Th	The Gun Mount upgrade in completed by a Depot Tea 2Q91 3Q91 3Q91 5000 5000 5000 5000 5000 5000 5000 50	intiguration (the balance of de is an RIA (Rock Island Arsen; m.  ACCOMPLISHED 3Q91 4Q91	elivered gun hal) effort; Reticle
1629ea M1A1 gun mounts to the higher pressure (and higher muzzle velocity) AEI contiguration (the balance of delivered gun mounts were supplied in this configuration for production). The Gun Mount upgrade is an RIA (Rock Island Arsenal) effort; Reticle	2Q91 3Q91 - 3Q91 - 4Q91	m. <u>ACCOMPLISHED</u> 3Q91 4Q91	
revisions are contracted and field retrofits to the tanks are completed by a Depot Team.	PLANNED 2Q91 3Q91 	ACCOMPLISHED 3Q91 4Q91	
	PLANNED 2Q91 3Q91 4Q91	ACCOMPLISHED 3Q91 4Q91 4Q91	•
NT MILESTONES: PL	3091 3091 4091	3091 4091 6091	
Preliminary Design Review 2091		4091	
	4091		_ •
Eval.	0000	1092	•
TDP Available 2Q92	ZG9Z	1092	-
	3007.7	V000 XI	7000 XL
FY 1997 FY 1998 FY 1999	FY 1999	FY 2000	5
Totals		2 2	5
FY 2002   FY 2003   FY 2004	FY 2004	FY 2005 To	Totals
1 2 3 4 1 2 3 4		1 2 3 4 Complete	
Inputs Outputs			4327 4327
OF IMPLEMENTATION: See Description ADMINISTRATIVE LEADTIME: N/A		STION	Months
5; FY 1997 N/A FY 1998			
Delivery Date: FY 1997 N / A FY 1998 N / A		FY 1999 N/A	

Γ			<b>4</b>		26.4	3.2	15.2	15.7	15.7	60.5
1998			TOTAL	4327				4327	4327	
February 1998			<b>₩</b>							
			1C	7			,			
Date			FY 2003							
			PY.							
			FY 2002							
			¥ o							
	4226		FY 2001							
	-89-05-		ě			<u>.</u>				
	(AEI) [MOD 4] 1-89-05-4226		FY 2000			<u></u> .	·			
TION	OW]		E &							
INDIVIDUAL MODIFICATION			FY 1999							
DUAL M	Initiativ									
NON	ement		FY 1998 Otv \$							
	Armament Enhancement Initiative		H				·	9.0	0.4	0.4
	ament		FY 1997 Olv 8					150	150	
	Arm	966	rior		26.4	3.5	15.2	ය. ව	15.3	60.1
		FY 1996	and Prior	4327				4177	4177	
	MODIFICATION TITLE (Cont):	FINANCIAL PLAN: (\$ in Millions)		RDT&E PROCUREMENT Kit Quantity Installation Kits	Equipment Nonrecuring	Engineering Change Orders Data (In - House Support)	Support Equipment Other (Gun Mount Rebuild) Interim Contractor Support	Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2003 Eqpt Kits TC Equip-Kits	Total Installment	Total Procurement Cost

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						Г	INDIVIDUAL MODIFICATION	JAL N	ODIF	CATIO	z							Date		February 1998	1998	
MODIFICATION TITLE:		Precision Lightweight GF	Lightv	/eigh	t GPS	Bec	PS Receiver	(PLGR)	!	[MOD 5]	5]	1-92-	1-92-05-4417	117								
MODELS OF SYSTEMS AFFECTED:	S AFFEC		M1 = 0,		IPM1	, 0 11	M1A1	= 4327,		M1A2 =	0 =		TOTAL ROMT	ROMT	= 4327ea	7ea						
DESCRIPTION / JUSTIFICATION:	FICATION	ž				l																
The Precision Lightweight GPS Receiver (PLGR) is a self - contained locater unit which can collect and	Lightw	eight	GPS i	. Rec	eiver	<u>P</u>	GR)	Sas	elf - (	ontai	ned	ocate	r Imil	whic	th car	s colle	et an	d proc	process GPS	PS sat	satellite	
signals and derive Position (To within + or - 10 meters), Velocity and Time (PVI Kit only - PLGB units were produced and provided to PM Abrams by PM GPS	ve Posi	ition	(To v	vithin	+ 0,	- 10	mete	rs), \	elocii Abr	y an	₽ <u>1</u>	or - 10 meters), Velocity and Time (PVT).	<u>;</u> «	The	fundii	gr.	OWD F	tor =	e PL(	The funding shown is for the PLGR Installation	tallation	
			3	5	2	)	5	<b>:</b> - 2		2	: }	; :	j									
DEVELOPMENT STATUS / MAJOR DEVELOPMENT M	US/MAJ	ORD	SVELC	PMEN	IT MIL	IILESTONES	NES:				PLANNE	(ED			ACC	ACCOMPLISH	SHE					
	Preliminary Design Review	ry De	sign R	eview			•				2Q91	<u>ج</u>				2091	91					
	Critical Design Review	esign	Revie	≥							4Q91	7				4091	91					
	Contractor Test & Eval.	r Test	м Щ	ä.							3093	83				4093	93		*	Delayed by	d by	
	Development Test & Eval	nent T	est &	Eval.			٠				1094	34				3Q94	94			continuing	ing	
	Initial Operational Test &	eration	al Te		Eval.		٠	٠			4Q94	94				1095	95		_	EMI problems	oblems	"
	IPR Production Decision	<b>Juction</b>	Decis	io			•				4Q94	34				2095	95					
	TDP Available	ilable					•		•		2097	97				*						
Installation Schedule:																						
	Pr Yr	ŀ	FY 1997	266			-	FY 1998			ŀ	FY 1999	666				FY 2000			FY 2001	20	
	Totals	-	2	3		4	-	7	e	4	=	2	3							2	8	4
Inputs	8 8											20	50	20	20 20	20	200	20	S 5	20	20	20
Outputs	85	1		ļ		4	$\dashv$	+		1		8	8							200	OC	G
		FY 2002	8				FY 2003		$\vdash$		FY 2004	ğ			¥	FY 2005			2		P	Totals
	-	2	3	4		F	2	8	4	F	2	8	4		L		3 4		Complete			
Inputs	20	20	20	50		0	20	20	20	20									3289			4327
Outputs	20	20	20	50		20	20	20	20	20									3289			4327
METHOD OF IMPLEMENTATION: Depot Field Team	ENTATIO	N. De	pot Fi	eld Te	an an	Ā	ADMINISTRATIVE LEADTIME:	RATIV	ELEA	TIME		2	Months	,	PROE	ОСТЮ	PRODUCTION LEADTIME:	TIME:	5	Months		
Contract Dates:		ш.	FY 1997	_				ĭ	FY 1998	⋖	AUG 98	~			FY 1999	66		66				
Delivery Date:		<u></u>	FY 1997	2				Ţ	FY 1998	7	JAN 99	_			FY 1999	66	DEC	66				
					l																	

Item No. 18 Page 13 of 45	146

					QN N	VIDUAL	MODIF	INDIVIDUAL MODIFICATION							ľ	Date		Februa	February 1998	
MODIFICATION TITLE (Cont):		Pre	Precision Lightweight GPS Receiver	Lightw	eight G	PS Re	ceiver	(PLGR)	ا⊋ا	[MOD 5]		1-92-05-4417	117							
FINANCIAL PLAN: (\$ in Millions)	FY 1996	و																		
	and Prior	ة ر	FY 1997	397	FY 18	1998	FY 19	1999	FY 2000	000	FY 2001	301	FY 2	200	FY 2003	003	TC	0	TOTAL	Ä.
	Qty	æ	Qty	\$	Oty	\$	Qty	\$	Qty	s	Qiy	s	Qty \$	s	ģ	69	Q Çţ	8	ģ	<del>s</del>
RDT&E PROCUREMENT																				
Kit Quantity	38				200		200		200		200		200		200		3089		4327	
Installation Kits		0.1				0.5		0.5		0.5		0.5		0.5		0.5		10.0		13.1
Installation Kits, Nonrecurring																•				
Equipment			••																	
Equipment, Nonrecurring															, ,					
Engineering Change Orders		0.1		,												,			•	0.1
Data																				
Training Equipment										•		-								
Support Equipment																				
Other (Benet Labs)		0.1																		0.1
Interim Contractor Support																				
									,,,,											
Installation of Hardware			,																	
FY 1996 & Prior Eqpt Kits	88	0.1																	38	0.1
FY 1997 Eqpt Kits																				
FY 1998 Eqpt Kits							200	0.1											200	
FY 1999 Eqpt Kits									200	0.7									200	0.1
FY 2000 Eqpt kits											200	0.1							200	
FY 2001 Eqpt kits													200	0.1					200	0.1
FY 2002 Eqpt kits			-												200	0.1			200	0.1
FY 2003 Eqpt kits		-															200	0.1		
TC Equip 3089 Kits																	3089	3.3	(1)	3.3
Total Installment	38	0.1					200	0.1	200	0.1	200	0.1	200	0.1	200	0.1	3289	3.4	4327	4.0
Total Procurement Cost		4.0				0.5		9.0		9.0		9.0		9.0		9.0		13.4		17.3

Exhibit P-3a Individual Modification

						NON	'IDUAL	INDIVIDUAL MODIFICATION	ATION							Date		February 1998	1998	
MODIFICATION TITLE:		Live Fire Category A	atego	ry A	(LFCA)	[MC	)D 6]	[MOD 6] 1-89-05-4230	-4230									:		
MODELS OF SYSTEMS AFFECTED:	S AFFEC	TED:	M1 = 0,	l .	IPM1 =	0, M1	M1A1 = 4	= 4327, N	M1A2 =	0	β	TOTAL ROMT	11	4327						
DESCRIPTION / JUSTIFICATION:	FICATIO	ž																		
Live Fire Category A consists of the foll	ory A c	sonsis	ts of	the fo	0	) M1/	11 Tal	lowing M1A1 Tank modifications:	ificatio		Ξ	Indepe	andent	Manu	al Blas	Independent Manual Blaster, [2.]		Driver's / Loader's	Loade	ကို
Hatch Ballistic Rims,	ims,	[3.] AFES Wiring	AFES	Miri Miri	g Har	ness	Ballist	Harness Ballistic Protection and	ction	and	4.	Driver'	s Hatc	ű	Sh Me	Driver's Hatch Latch Mechanism.	- 1		hese	
for concurrent programment and installation as a nortion of Block G.	rrects 8	a defic	Siency	relat	ing to	tank	Surviv	ig to tank survivability found during Live - Fife Testing. on as a nortion of Block G	onug k onug	anrınç	) LIVe	- 116	lesti		nese	I nese modifications are	ations		planned	
			<u> </u>			<u>.</u> 5		i i	<b>5</b>											
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES	US / MA	JOR DE	VELO	MENT	MILES	ONES			1	PLANNED	۹		AC	COMP	ACCOMPLISHED	۵				
	Preliminary Design Beylew	No.	ion Be	weiv				•		2089	]_			5	2Q89	I				
	Critical Design Beview	Design	Review			•				1091				<b>~</b>	1091					
	Contractor Test & Evel	or Toet	Ţ	-		,	•			4001				4	4091					
	IPB Production Decision	יים יים יים	Dariety Dariety	: 5				•	,	000				- ⊼	2000					
	TDP Available	ailable		į				•	,	4092				4	4Q92					
Installation Schedule:																				
	Pr Yr		FY 1997	197			FY 1998	98	$\vdash$		FY 1999	6		Ŧ	FY 2000			FY 2001	201	
	Totals	1	2	3	4	-	2	3	4	1	2	3	4	-	2	3 4	1	2	3	4
Inputs	1400	135	136	135	136	97	6	86	86	26	26	86	98	3 26	97 9	98 98	6	97	98	98
Outputs	1400	135	136	135	136	6	6	86	86	26	26	86	86	3 26	6 /6	86 86	26	26	86	98
				İ				ŀ				ŀ				-				
		FY 2002	02			FY 2003	83			FY 2004	#		-	FY 2005		7	٥		ř	Totals
	1	2	3	4	-	2	3	4	-	2	3	4	-	2	က	4	Complete			
Inputs	26	26	86	86	26	26	86	86	45											4327
Outputs	97	6	86	88	5	۱	8	88	<del>1</del>	1	٦	1				-   - 	٦			432/
METHOD OF IMPLEMENTATION: Contr. Field Team	ENTATIC	ō" X	ontr. Fie	ld Teal	6 2		TRATI	ADMINISTRATIVE LEADTIME:		86 21	2 <b>№</b>	Months	<u> </u>	PRODUCTION FV 1999	PRODUCTION LEADTIME: EV 1999 DEC 98	OTIME:	ဖ	Months		
Delivery Date:		. IL	FY 1997		37 SY		. u.	FY 1998	DEC	86 20			<u>.</u>	FY 1999	96 NO	3 6				
			I		١						l									1

				e e		16.9	0.1	8.7	0. 2 0. 4	2.5	1.0	22.3	39.3
			TOTAL	+	4327			010	390	06 06	157	4327	H
February 1998				3				<u>``</u>					Ш
Febr			2	9							0.3	0.3	0.3
				3							45	45	
			8	9			and the second s			1.8	0.7	2.5	2.5
Date			FY 2003	<u> </u>						278	112	390	
			H	+		4.0				1.8		2.5	5.9
			8	-	157					278		390	
			H	\$		6.0			8.	0.6			3.3
			FY 2001	€									
				3	390					112		390	
	4230		000	€		1.2			1.7			2.3	3.5
_	89-05		FY 2000	<u>}</u>	390				278			390	
INDIVIDUAL MODIFICATION	(LFCA) [MOD 6] 1-89-05-4230		66	9		1.2			1.7			2.3	3.5
MODIF	дом]		FY 1999	<u>}</u>	390				278			390	
'IDUAL	CA)		H	+		1.2		1.0	<del>.</del>			2.3	3.5
NDIV			FY 1998	) }	390				222			390	
	Live Fire Category A		H	+		2.1		લ જ				3.2	5.3
	re Cat		FY 1997	<u> </u>	200			542	:			542	
	ive Fi			3	———	9.9	.0	رن بن				Ш	14.5
		FY 1996	and Prior				•						14
		FY	ğ	3	2110			1400				1400	
	MODIFICATION TITLE (Cont):	FINANCIAL PLAN: (\$ in Millions)		RDT&E	PHOCUPLEMENT Kit Quantity Installation Kits Installation Kits.	Equipment	Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other (In - House Spt) Interim Contractor Support	Installation of Hardware FY 1996 & Prior Egot Kits	FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits	FY 2000 Eqpt kits FY 2001 Eqpt kits	FY 2002 Eqpt kits FY 2003 Eqpt kits TC Eaulo-Kits	Total Installment	Total Procurement Cost

Modification	
Individual	
Exhibit P-3a	

				İ		NDIV	'IDUAL	INDIVIDUAL MODIFICATION	ATION							Date		February 1998	1998	Γ
MODIFICATION TITLE:		Battlefield Override	Overr	ide (B	3F/OR)		. L/ Q(	[MOD 7] 1-89-05-4229	4229											
MODELS OF SYSTEMS AFFECTED:	IS AFFE(	CTED:	ž	M1 = 0,	IPM1 =	0	M1A1 =	= 4327, N	M1A2 =	81	ĭ	TOTAL ROMT	MOMT =	4408						
DESCRIPTION / JUSTIFICATION:	<b>TFICATIO</b>	ä															·			I
Battlefield Override (BF/OR) is a completely mechanical bypass of the mechanical fuel/engine/transmission controls requiring no	erride	(BF/O	R) is	a cor	npletel	y med	hanica	l bypas	s of t	he me	chanic	cal fue	el / en	jine / t	ransmi	ssion (	control	s requ	iring r	و
primary or back - up electrical system fo	e dn -	lectric	al sys	tem f	or ope	r operation.	The	The purpose of BF/OR is to allow an Abrams Tank to extricate itself from the	se of	BF/OR	is to	allow	an /	\brams	Tank	to ex	tricate	itself	from .	he.
battlefield when normal fuel flow, engine	norma	i fuel	flow.	engin	e con	tol o	transı	control or transmission shifting have been lost through battle damage.	shiftin	g hav	e pee	in lost	throu	gh ba	ttle da	mage.	BF/C	BF/OR is designed	design	ed
tor use in combat situations only; has no peacetime recovery role and is based on the premise that crew rank sell recovery takes priority over potential mechanical damade resulting from uncontrolled operation. This modification will significantly increas	oat situ ⁄er pot	ations ential	mech	nas anical	no pe dama	acetim ge res	e reco	to peacetime recovery role and is based on damage resulting from uncontrolled operation.	ne an	olled o	ased operati	2 <u>6</u>	pren This n	nse un nodifica	ation v	e premise that crew / tank sell recovery This modification will significantly increase	k sell nificant	recov Ily incr	ery ease	
crew / tank survivability in a combat environment.	ivability	Ë	comp	at en	>	ent.	•									)				
DEVEL OPMENT STATUS / MAJOR DEVEL OPMENT	TUS/MA	OBO	EVEL 0	PMENT	- 1 -	MILESTONES:			PL	ANNED			ACC	OMPL	ACCOMPLISHED					
	Preliminary Design Beview	Jac Vie	Sion B	weive		•	•	•	`	4091	t			4Q91	7					
	Critical Design Review	Design	Reviev	_				•	·	1092				2092	35					
	Contractor Test & Eval	for Tes	ж Н	. 7		•	•	•	•	2002				3092	25					
	Dovolonment Toot & Eval	101 - 103 T + 100 m	) a	i ú		1				1000				3093	l c					
	IPR Production Decision	diction.	Dacis	֓֞֞֜֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֜֓֓֓֓֡֓֜֜֓֡֓֡֓֡֓֡֓֡֡֓֡			•	•	·	1093				3093	9 6					
		14-11-1		5					•	7007				1005	i K					
	I DP Available	/allable						•	•	† 9				ž	3					
Installation Schedule:																				
	Pr Yr		FY 1997	997			FY 1998		$\dashv$		FY 1999			<u>`</u>	8		ľ	FY 2001		-
	Totals	F	7	೯	4	ᅱ	7										= ;	~ {	ल	4 8
Inputs	1421	4 4	115	4 4	1 1 2	8 2	8 8	8 8	83 6	223 222		222 222		84 83		8 8	80 8 4 4	S &	2 8	2 6
Cuthurs	175.1		<u>2</u>	-	2	5	3		]	1							5	3	3	3
		FY 2002	200			FY 2003	8		۳	FY 2004		_	Ē	FY 2005			To		Ľ	Totals
	-	2	3	4	1	2	3	4	+	2	3	4	-	2	3 4		Complete			
Inputs	84	83	83	83	77	14	11	1 3												4408
Outputs	84	2 C	£ 1	20 1	7			,   ! ,	-	- '		<u>ا</u> پا					7	Manufill of		004
METHOD OF IMPLEMENTATION: Depot Field Teams	IENTATI	ON: ON: ON:	Spot Field	d lear	۰ >		HASI 1	ADMINISTRATIVE LEADTIME:	- ME:	.v 0	Months	SLI	14000 14 1990		FRODUCTION LEAD TIME:	- IME:	0	Months		
Delivery Date:		_	FY 1997		YE YON	_	_ LL.	FY 1998	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3 8			FY 1999	66	Ş Q	66				
						İ						l								1

Charles			1 ] ]		•	INDIVIDUAL MODIFICATION	MODIF	ICATION								Date		February 1998	1998
S	Battlefield Override	attlefield Overric	ld Overric	.은		(BF/OR)		7] 1-6	39-02-	4229									
1.6   223   0.5	FY 1996	<b></b>																	
3 333 333 333 333 333 306	1 Prior FY 199	199	1997	Н	Ł	1998	FY 15	999	FY 2	80	FY 2(	901	FΥ2	202	FY 2	88		H	TOTAL
1.6 223 0.9 333 0.5 0.5 0.5 0.3 1.4 333 0.6 333 0.3 333 0.3 333 0.3 333 0.3 2.1 4 333 0.6 333 0.3 333 0.3 333 0.3 333 0.3 2.1 4 4.2 1.1 0.8 0.9 0.6 0.3	Oty \$ Oty \$	6	+	4	à	69	à	s e	ð	မှာ	ð	8	à	\$	ð	\$	à	\$	ð
1.6 223 0.9 0.5 0.5 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	049E				6		000						Ö					•	770
1.6 223 0.9 333 1.4 333 0.6 333 0.3 1.6 889 3.7 333 0.6 333 0.3 339 0.3 330 0.3 330 0.3 330 0.3 330 0.3 330 0.3 331 0.3 332 0.3 333 0.3 333 0.3 333 0.3 333 0.3 334 0.3	200				3		2	-	3		3		5						1 0 0
1.6 223 0.9 333 1.4 333 0.6 333 0.3 1.6 889 3.7 333 0.6 333 0.3 2.1 4.2 1.1 0.8 0.3						1	****	,						,			,		
1.6 223 0.9 333 1.4 333 0.6 333 0.3 1.6 889 3.7 333 0.6 1.6 889 3.7 333 0.6 1.6 889 0.3 308 0.3 2.1 4.2 1.1 0.8 0.3 0.6	3.9		0.5			0.5		0.5		0.5		0.5		0.3					
1.6 223 0.9 333 1.4 333 0.6 333 0.3 1.6 889 3.7 333 0.6 33 0.3 1.6 889 3.7 333 0.6 333 0.3 1.1 0.8 0.6 0.3	<b>**</b>																		
1.6 223 0.9 333 1.4 333 0.6 333 0.3 1.6 889 3.7 333 0.6 330 0.3 330 0.3 330 0.3 330 0.3 330 0.3 330 0.3	1.9																		
1.6 223 0.9 333 1.4 333 0.6 333 0.3 339 0.3 1.6 889 3.7 333 0.6 33 0.3 2.1 4.2 1.1 0.8 0.9						•													
1.6 223 0.9 333 1.4 333 0.6 333 0.3 1.6 889 3.7 333 0.6 333 0.3 2.1 4.2 1.1 0.8 0.3																			
1.6 223 0.9 333 1.4 333 0.6 333 0.3 1.6 889 3.7 333 0.6 1.6 889 3.7 333 0.6 339 0.3 308 0.3 2.1 4.2 1.1 0.8 0.6							<del></del>												
1.6 223 0.9 1.4 333 0.6 333 0.3 333 0.3 339 0.3 1.4 333 0.6 1.4 333 0.6 1.1 0.8 0.8 0.3 1.4 333 0.6 0.3 1.4 333 0.6 0.3 1.4 333 0.6 0.3 1.4 1.1 0.8 0.8 0.6 0.8 0.8																		<del></del>	
223 0.9 333 1.4 333 0.6 333 0.06 333 0.3 889 3.7 333 0.6 333 0.0 333 0.3 889 3.7 333 0.6 333 0.3 333 0.3																			
1.6 223 0.9 333 0.6 333 0.3 333 0.3 339 0.3 1.4 333 0.6 333 0.3 33 33 0.3 33 0.3 33 0.3 33 0.3 3 33 0.3 3 33 0.3 3 3 3																,			
1.6 223 0.9 1.4 333 0.6 333 0.3 333 0.3 308 0.3 1.4 333 0.6 333 0.3 33 0.3 33 33 0.3 33 0.3 33 0.3 33 0.3 3 33 0.3 3 3 3											-								
1.6 223 0.9 333 0.6 333 0.3 333 0.3 308 0.3 1.4 333 0.6 333 0.3 333 0.3 308 0.3 2.1 4.2 1.1 0.8 0.8 0.6 0.3												•							
333 1.4 333 0.6 333 0.3 333 0.3 339 0.3 1.6 889 3.7 333 0.6 333 0.3 308 0.3 2.1 4.2 1.1 0.8 0.8 0.6 0.3	1421 6.8 458 2.2 333	458 2.2	2.2			1.6	223	0.9											2435
1.6 889 3.7 333 0.6 333 0.3 333 0.3 308 0.3 1.4 4.2 1.1 0.8 0.8 0.6 0.3							333	4.		-				***				-	333
1.6 889 3.7 333 0.6 333 0.3 308 0.3 2.1 4.2 1.1 0.8 0.8 0.6 0.3							333	4.											333
1.6     889     3.7     333     0.03       2.1     4.2     1.1     0.8     0.3									333	9.0									333
1.6     889     3.7     333     0.3       2.1     4.2     1.1     0.8     0.3							<del></del>				333	0.3							333
1.6     889     3.7     333     0.6     333     0.3       2.1     4.2     1.1     0.8     0.6     0.3													333	0.3					333
1.6     889     3.7     333     0.6     333     0.3     333     0.3       2.1     4.2     1.1     0.8     0.6     0.3															308	0.3			308
1.6     689     3.7     333     0.6     333     0.3     333     0.3     308     0.3       2.1     4.2     1.1     0.8     0.6     0.3													•						
1.6         689         3.7         333         0.6         333         0.3         333         0.3         0.3           2.1         4.2         1.1         0.8         0.6         0.5         0.3					- I		+	7		1								$\dagger$	1
4.2 1.1 0.8 0.6	458 2.2	458 2.2	2.2		വ		889	3.7	333	9.6	333	0.3	333	0.3	308	0.3			4408
	13.7 2.7		2.7			2.1	$\dashv$	4.2		<u>-:</u>		0.8		0.6		0.3		_	

lification
₽ <b>N</b>
vidual
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t P-3a
Exhibi

						INDIV	'IDUAL	INDIVIDUAL MODIFICATION	CATIO	z						Ĩ	Date		February 1998	8661	
MODIFICATION TITLE:		Fire (	Live Fire Category B		(LFCB)	GOM] (	)D 8]	8] 1-94-05-4481	5-448	<u>=</u>											
MODELS OF SYSTEMS AFFECTED:	AS AFFE(	CTED:	M1 =		IPM1 =	٥,	M1A1 =	= 4327,	M1A2	: = 81		Ď	TOTAL ROMT	#	4408						
DESCRIPTION / JUSTIFICATION:	TFICATIO	: NC																			
Live Fire Category B includes the following individual modifications:	egory 1	B incl	sepn	the fo	llowing	j indiv	idual	.≃	cation	s: [1	<u></u>	roved	- Gun	ner's	Station	7 [ <u>[2.]</u>	Smo	ke Ge	[1.] Improved Gunner's Station [2.] Smoke Generator Fuel	r Fuel	
Line and [3.] Turret Ammunition Door Locking Mechanism.	Turret	Amm'	unition	Doo ر Spdific	r Lock	king N	lechar		Each	of th	nese r	nodific	sations	s corr	ects a ication	vehic	ole de	ficiency	Each of these modifications corrects a vehicle deficiency found	<del>-</del> ლ	
ממוות ליוות		: 5	2			3		<u> </u>		5	2	)	3	<u>}</u>		3		5		5	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES	TUS / MA	JORD	EVELO	PMENT	MILES	TONES				PLANNE	ED			\$CC0	<b>ACCOMPLISH</b>	SHED SHED					
	Critical Design Review	Design	Review	>		•		•		4093	93				4093						
	IPR Production Decision	duction	n Decisi	e G			•	•		4093	93				4093						
	Development Test & Eval.	ment T	est &	Eval.			,	•		1094	4				1094						
	TDP Available	ailable						•	1	2Q94	4				4Q94						
T-4000-400																					
Installation Schedule:																					T
	Pr Yr		FY 1997	<u>}</u>			FY 1998	98	Н		FY 1999	66			FY 2000	) 00			FY 2001	01	
	Totals	1	2	3	4	1	2	3	4	Ŧ	2	3	4	-	2	3	4	-	2	3	4
Inputs	2010	241	242	242	242	5	5	5 5	10	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 4	5 5	<u> </u>	2 4	Ş
Outputs	1028	882	238	887	853		2	5	2	2	2	=	[	2	=	2	2	2	2	2	2
		FY 2002	902			FY 2003	83			FY 2004	704			FY 2005	305			2		P	Totals
	=	2	9	4	╒	2	3	4	F	2	3	4	1	2	3	4	Con	Complete			
Inputs Outputs	5	101	101	101	95	95	94	96													4408 4408
METHOD OF IMPLEMENTATION: Depot Field Teams	MENTATION	ON: De	pot Fiel	d Team		VDMINE	TRATI	ADMINISTRATIVE LEADTIME:	DTIME		8	Months	_	PRODU	CTION	PRODUCTION LEADTIME:	IME:	2 N	Months		
Contract Dates:			FY 1997 FY 1997		JUL 97 DEC 97	<b>.</b> .	<u>. L.</u>	FY 1998 FY 1998		JUL 98 DEC 98	m			FY 1999 FY 1999		JUL 99 DEC 99	<b>m</b> -				

					Ĭ	INDIVIDUAL MODIFICATION	. MODIF	ICATION							ľ	Date		Februa	February 1998	
MODIFICATION TITLE (Cont):		Lį	e Fire	Live Fire Category B		(LFCB)		[MOD 8] 1-94-05-4481	4-05-4	481										
FINANCIAL PLAN: (\$ in Millions)	100	9																		
	and Prior	rior	FY 1997	1997	FY 1998	866	FY 1999	661	FY 2000	8	FY 2001	101	FY 2002	202	FY 2003	903		70	TOTAL	<u> </u>
	Q Qt	\$	Qty	\$	Qty	\$	Qty	\$	Qty	-	Qty	\$	Qty	ş	Qty	\$	Qty	s	۵ty	s
RDT&E PROCUREMENT																				
Kit Quantity	2010		296		404		404		404		219								4408	
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		0.8		4.0		0.2		0.2	******	0.2		0.1								1.9
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data										•										
Training Equipment																				
Support Equipment																				
Other												-								
Interim Contractor Support																				
				-		***						**								
Installation of Hardware																				
FY 1996 & Prior Eqpt Kits	1058	1.6	952	4.1															2010	3.0
FY 1997 Eqpt Kits					404	9.0	404	9.0	159	0.5									296	1.4
FY 1998 Eqpt Kits									245	0.4	159	0.2							404	
FY 1999 Eqpt Kits											245	4.0	159	0.3					404	
FY 2000 Eqpt kits													245	4.0	159	0.2			404	
FY 2001 Eqpt kits															219	0.4			219	
EY 2002 Eapt kits	-																			
EV 2003 Eapt kite																				
רווא הקוףו הווא																				
TC Equip-Kits								1	1	1	_									
Total Installment	1058	1.6	952	1.4	404	9.0	404	9.0	404	9.0	404	9.0	404	0.7	378	9.0			4408	
Total Procurement Cost		2.4		1.8		0.8		9.0		0.8		0.7		0.7		9.0				9.8

						ואווטוי	MODELIA! MODIEICATION	MOITA						oto C		Fohrmen 1008	1008	
HIT NOTEGON	Driver's Viewer Quick	Viewe	r Quick	Release		VQR)	(DVQR) [MOD 9] 1-92-05-4427	9] 1-92	2-05-4	127								
MODELS OF SYSTEMS AFFECTED:	AFFECTEI	ö	M1 = 0,	), IPM1 =	= 0,		M1A1 = 4327,		M1A2 = 181		TOTAL	TOTAL ROMT = 4508	= 4508					
DESCRIPTION / JUSTIFICATION:	CATION:											!			:			
The Driver's Night Viewer Quick Release (DVQR) is a modification to the Driver's Night Viewer Periscope Retainer.	tht View	er Qui	ck Re	lease	(DVQF	is a	modifi	cation	to the	Driver	s Nigh	t View	er Peri	scope R	etainer.		It Provides	o o
more positive tocking reature which will preclude induvertent release of the periocope from its operating position. The printery purpose is to prevent the Viewer/Periscope from falling into the driver's lap when it is moved out of the driver's way as he exits	ing ream rent the	ure wr Viewe	ıcı wı r/Peri	scope	from (	lauvert falling	precide inauverient release of the cope from falling into the driver's lat	aase o e drive	r's lap	when	itis r	moved	out of	when it is moved out of the driver's	er's wa	ay as h	ry ne exit	ts
the vehicle precluding injury to the driver as well as damage to the periscope.	ujui guit	ry to	the driv	ver as	well a	as dan	nage to	the F	perisco ie bor	pe. B	ecause	of its	poten	Because of its potential importance in emergency	rtance	in eme	rgency	>
driver egress this modification has a secondary sarety designation.	modifica	illon n	as as	econde	iry sar	ery de	signatic		S IO	vever,	primar	lly din	operauc	it is nowever, primarily an operational improvement.	ellie	Ë		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	S / MAJOR	3 DEVEL	OPMEN		MILESTONES:			N.	PLANNED	Č		ACCO	ACCOMPLISHED	印				
Ö	Critical Design Review	gn Revi	Me .						4093				4093					
<u>~</u>	Development Test & Eval.	t Test ⊱	Eval.		,				480				3 6					
₫_	IPR Production Decision	tion Dec	ision			•			30.94				4000					
F 	TDP Available	90			•		,		4Q94				4C94					
Installation Schedule:																		
	Pr Yr	  -	FY 1997			FY 1998	86		Ē	FY 1999			FY 2000	0		FY 2001	100	
핃				Ш	7	2				$\Box$		-	7	8	4	2	၈	4
	1505 227	228	3 228	228	261	261	5,50	262	261 261	51 262	262	28.4	261	262 262				
Sindino				╛	77	250		╛	_	_								
	E	FY 2002			FY 2003	)03		"	FY 2004			FY 2005	205		오		٦	Totals
	1	2 3	3 4	1	2	3	4	-	2	3 4	4	2	3	4	Complete			
Inputs																		4508
Outputs		_				1	-	-	-									4508
METHOD OF IMPLEMENTATION: Depot Field Teams Confract Dates: FY 1997 OC	TATION:	Depot Field FY 1997	ield Tea	5 -	ADMINE 3	STRATI	ADMINISTRATIVE LEADTIME:	TIMË: OCI	E: 2	Months	S.	PRODUC FY 1999	CTIONL	PRODUCTION LEADTIME: FY 1999 OCT 98	က	Months		
Delivery Date:		FY 1997	97	DEC 96	. "	. ш	FY 1998	DEC	2 97			FY 1999		DEC 98				

Γ			T	s e	0.5	00.0	0.8	1.3
866			TOTAL	λįσ	4508	1505 911 1046	4508	
February 1998			-	\$				
			5	Αįσ				
٩			88	s				
Date			FY 2003	ģ				l
			202	\$				
			FY 2002	οţ				
	27		100	49				
	[MOD 9] 1-92-05-4427		FY 2001	ð				
	9] 1-92		FY 2000	49		0.2	0.2	0.2
NO.	[MOD		ΕΥ	ĝ		1046	1046	6
INDIVIDUAL MODIFICATION	(DVQR)		FY 1999	မာ	0.01	0.2	3 0.2	Ö
AL MOD			FY	ğ		1046	1046	_
DIVIDU	Driver's Viewer Quick Release		FY 1998	\$	0.1	0.2	0.2	Ö
=	Quick		FY	ğ		16	911	
	Viewer		FY 1997	s	0.1	0.1	0.1	0.2
	river's	r	Ŧ	ĝ		1 720	1 720	6
	۵	4 4000	and Prior	\$	0.2	. 0.1	0.1	0.3
			au	ģ	1505	785	785	
	MODIFICATION TITLE (Cont):	FINANCIAL PLAN: (\$ in Millions)			RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other	Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt Kits	Total Installment	Total Procurement Cost

						QN	VIDUAL	INDIVIDUAL MODIFICATION	CATIC	ž						Date		February 1998	y 1998	Γ
MODIFICATION TITLE:		se - Je	Pulse - Jet System	em (PJ	တ	[MOD	10]	[MOD 10] 1-92-05-4475	-4475											
MODELS OF SYSTEMS AFFECTED:	S AFFE	стер:	M1 =	0	IPM1 = 0,	1	M1A1 _	M1A1 = 4327,	M1A2 =	2 = 228	_ 	5	TOTAL ROMT	AT = 4555	55					
DESCRIPTION / JUSTIFICATION:	<b>IFICATI</b>	NO																		
The Pulse - Jet System (PJS) replaces	et Sys	tem (f	JS) r	eplac		arge	portion	າ of tf	ne cur	rent e	ngine	air fi	a large portion of the current engine air filtration system.	systen		e pur	The purpose of PJS is to	PJS i	s to	
extend the time between required air path servicing in any severe dust environment.	betwe	en re	quired	air r	ath s	ervicir	ri g	any se	evere	dust	enviro	nment	The	currer	nt syst	em rec	th servicing in any severe dust environment. The current system requires frequent	requent	ي. بـ	
broken in order to complete the service.	10 co co	mplete	the :	willer service	3.	JS gre	atly 1	educe:	s the	numb	er of	times	the of	ean air	path	requir	In introduce dust into the clear at pain as each servicing requires and the pain is PJS greatly reduces the number of times the clean air path requires servicing. The	icing.	The F	
result is improved combat performance	oo pe	nbat p	erforn -	nance	and	reduce	g Sg.	S cos	its. F	w SL℃	as ide	entified	das us	ser pric	ority n	umber	and reduced O&S costs. PJS was identified as user priority number one by Abrams tank	Abrar	ns tank	_ (
units involved in Operation Desert Storm (ODS). NOTE: 180ea additional PJS Kits were procurred using FY97 DEOF OSCH (P.S. Cost Bediction) funds. This procurement is NOT a part of the Abrams tank MOD Line procurements but the 180 are being	n Oper tion) fi	ration	Deser This	t Stor	т Б	DS). 1 is <b>7</b>		LE:	80ea of the	additi Abra	ional I	z X Z X X	od Lir	re proc 1e proc	turred tureme	using ints bi	NOTE: 180ea additional PJS Kits were procurred using FY97 DEOF OSCH (O) a part of the Abrams tank MOD Line procurements but the 180 are beind	180 ar	OSCA e being	<u> </u>
installed using MOD Line \$\$\$, thus total procured will be 180 less than the total installed	MOD 1	ine \$	\$\$, t	Tus to	tal pr	ocure	III.×	be 18	Sel 0	than	the	iotal ii	nstalled						•	
PEVEL COMENT STATIS / MA 10B DEVEL OBMENT MILESTONES:	/W/ 51 IJ			DAKENIT	MII EC	TONES				PI ANNED	FD		Ĭ	ACCOMPLISHED	HSI IC	ا <del>:</del> ا			,	
בי בנטר ואיבועו סוס			֓֞֝֜֝֓֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓			í			-1	2000	<u> </u> 2		:	2000	8					
		ary De	Preliminary Design Review	MAIN .		•			•		7 2			3000	1 0					
	Cilical	Design	Criicai Design Review	≥ '						Ś	7 9			3 6	1 6					
	Contrac	tor Tes	Contractor Test & Eval	ක් :		•				2600	ž ;			3093	200					
	Develor	oment 1	Development Test & Eval	Eval.		•				3093	ဗု ေ			3093						
	Initial	Speration	Initial Operational Test &	st & Eval	<u>;</u>					4093	ဗု ၂			4093						
	IPR Pr	oduction	IPR Production Decision	io						4093	ဗ္ဗ			4093	93					
	TDP A	TDP Available								2096	မွ			2096	96					
Installation Schedule:									ŀ											T
	Pr Yr		FY 1997	266			FY 1998	966			FY 1999	666	-	_	FY 2000			FY 2001	<u>6</u>	
	Totals	-	7	က	4	-	7	6	4	=	N	က	4	-	2	8	4	2	9	4
Inputs	543	36	36	36	36	36	6													
Outputs	17	22	22	22	22	45	45	42	45	75	75	74	74	74	4	4				
		FY 2002	000			FY 2003	503			FY 2004	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			FY 2005		-	2		ľ	Totals
	-	2	3	4	F	~	8	4	-	2	6	4	F	2	3	4	Complete			
Inputs												_			_	_	3643			4375
Outputs																	3643			4555
METHOD OF IMPLEMENTATION: Contractor Teams	ENTATI	ŏ NO NO	utracto	r Team		ADMIN	STRAT	ADMINISTRATIVE LEADTIME:	\DTIME		3	Months		PRODUCTION LEADTIME:	JON LE	ADTIME	8	Months		
Contract Dates:		-	FY 1997			26		FY 1998			86		Œ	FY 1999	FEB	3 39				
Delivery Date:			FY 1997		APR 9	98		FY 1998		OCT 98	8		Ą	FY 1999	OCT	T 99				

				INDIVID	JAL MOL	INDIVIDUAL MODIFICATION	N.							Date		February 1998	1998	Π
	Pulse	Pulse - Jet System	ystem	(PJS)	дом]	[MOD 10] 1-92-05-4475	2-05-4	475										
FY 1996																		
and Prior	_	FY 1997	H	FY 1998	FY	FY 1999	FY 2	FY 2000	FY 2001	3001	FY 2	FY 2002	ΕΥ	FY 2003	TC		TOTAL	1
Oty \$	$\dashv$	Oty \$	QÎ,	ty \$	δ	₽	χίσ	\$	λĵ	\$	ĝ	€9	Δį	s	QtA	\$	οţλ	\$
543		44	·····	55											3643	·	4375	
			<del>_</del>	!													)	
~	24.6		6.7	ci —	2.1											253.2		286.6
	9.0																	9.0
	0.9																	0.9
			<del></del>															
					•													
			<u> </u>															
																	-	
17	6.	228 **		180	1.4	3 0.9											543	4.2
					_											<del>-</del>	144	1.2
					36		189	1.5									225	1.8
		<u></u>																
		_	,															
	+	+	+		١										3643	43.7	3643	43.7
17	1.9	228		180	1.4 298	8 2.4	189								3643	43.7	4555	50.9
2	29.0		6.7	8	3.5	2.4	-	1.5								296.9		340.0

					NDIN	DUAL N	INDIVIDUAL MODIFICATION	ATION							Date		February 1998	y 1998	
MODIFICATION TITLE: MG	Mounted Water Ration	Nater F	Ration	Heater		(MWRH)	[MOD	[MOD 11] 1-92-05-4426	32-05-	4426									
MODELS OF SYSTEMS AFFECTED:	ECTED:	2	M1 = 0	, IPM1	.0=		M1A1 = 1501,	ı	M1A2 = 0		TOT,	TOTAL ROMT	AT = 1501	501					
DESCRIPTION / JUSTIFICATION:	TION:																		
The purpose of the Mounted Water heat water and rations during extended	ne Mou	nted V	/ater   ended	Ration field	Heate operat	or (MV	VRH) i	lation Heater (MWRH) is to provide the Abrams field operations without having to exit from the	rovide y to e	the A	Abrams m the	s tank prote	crew	with to	Ration Heater (MWRH) is to provide the Abrams tank crew with the internal capability to field operations without having to exit from the protection of the vehicle.	ernal c le.	apabil	ity to	
NOTE: ATCOM / PM SOI DIER progured the MWBH	i Co	JEB D	ניסטווגפּ	t et	MW B		brams	tank 1	/ spur	data 1	puno	herein	are	or the	Abrams tank funds / data found herein are for the integration kit and	ation	kit an	-	
installation only. Integration Kit is being fabricated by will also be by ANAD.	egration D.	. ₹ 	bein	g fabr	icated	>	nniston	Army	Depo	t (AN	AD) s(	there	n si e	o Har	Anniston Army Depot (ANAD) so there is no Hardware Contract.	Contra	•	Installation	ation
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	MAJOR D	EVELOF		MILESTONES:	ONES:			PL	PLANNED			ACC	OMPL	<b>ACCOMPLISHED</b>					
Prelin	Preliminary Design Review	sign Re	view		•	•		•	4Q92				4092						
Oritics	Critical Design Review	Review			•	•			1093				1093						
Contr	Contractor Test & Eval.	at & Eva	=		•	•			1093				1093						
Devel	Development Test & Eval.	Fest & F	ival.		•	•	•		3093				3093						
Initial	Initial Operational Test &	nal Test	& Eval.	<u></u>	•				3093				3093						
l Hd	IPR Production Decision	Decision L	Ę		•	:	,		2Q95				4095						
TDP	TDP Available				;				1096				1096						
Installation Schedule:																			
Pr Yr		FY 1997			ŀ	FY 1998	æ	-	۳	FY 1999		_	리	FY 2000		Ī	FY 2001		
Totals 1501	-	7	8	4	-	0	ဇ	4	-	N	<u>е</u>	4		3	4	-	N	<del>е</del>	
s	187	187	188	188	188	188	188	187											
																•			
	FY 2002	002			FY 2003	8	-	۲	FY 2004			Ŧ	FY 2005		<del></del> ,	ပို			Totals
	1 2	9	4	-	2	က	4	-	2	3	4	-	2	3 4		Complete			
Inputs									<del> </del>										1501
Outputs			1		1	1	$\exists$	-	-	-	4					٦			8
METHOD OF IMPLEMENTATION: Depot Teams Contract Dates:	Ä NOIL	epot Tee FY 1997			SINING	TRATIV Fy	ADMINISTRATIVE LEADTIME: FY 1998 N	TIME: N/A	ю -	Months	ths.	PRODUC FY 1999	0UCTIO	PRODUCTION LEADTIME: FY 1999 N/A	TIME	ო	Months		
Delivery Date:		FY 1997		۷ / ۷		Œ	FY 1998	۷ / ۷	ار			FY 1999	66	A/N					

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			FY 2002	₩.								
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	(MWRH) [MOD 11] 1-92-05-4426		FY 2001	À		<del></del>					$\vdash$	
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NO	[MO			₹				******				
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INDIVIDUAL MODIFICATION	Ration Heater		8	<b>9</b>			-		0.1		0.1	0.1
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	IT NOI	PLAN			MENT y Kits	t, Nonre ig Char	quipme	ntracto	of Hard 8.8. Prio 7. Eqpt	Eqpt - Eq	tallmen	curem
	MODIFICATION TITLE (Cont):	FINANCIAL PLAN: (\$ in Millions)		i	RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits	Equipment Equipment, Nonrecurring Engineering Change Orders Data	Support Equipment Other	Interim Contractor Support	Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits	FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt Kits FY 2003 Eqpt Kits TC Equip-Kits	Total Installment	Total Procurement Cost
	MOD	N N A			PROCU FILOUR Mit Que Installe Installe	Equipr Equipr Engine Data	Suppo	重	55 T T T		ř	ř

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			INDINI	UAL M	INDIVIDUAL MODIFICATION	rion N							Date		Febru	February 1998	
MODIFICATION TITLE:	System Enhancement	Package	e (SEP)		[MOD 12] 1-96-05-4505	] 1-96	-05-4	902									
MODELS OF SYSTEMS AFFECTED	S AFFECTED: M1 = (	0, IPM1	,0 = 0,	M1A1 = 0,	l	M1A2 = 627	. 627		TOTA	TOTAL ROMT	11	627					
DESCRIPTION / JUSTIFICATION:	FICATION:			1						4		4		4	0		
I ne system I "Digitization of th	Ine system Ennancement Package "Digitization of the Battlefield" effort. T		consisi rt upgi	s or r ades	the M	A2 e	are ar lectror	ics su	uite v	vith is	nprov	will be	ossao Scesso	(SEF) consists of MTAZ natuwate and software changes which support the OS Annys its effort upgrades the MTAZ electronics suite with improved processors, increased men	eased	ny s memo	حَ
and software par	and software partitioning necessary for	-	A2 to	opera	te in t	le Arı	ny's p	lanne	d cor	nmor	oper	ating	enviro	ment a	and ac	sp	
second generation (GPS) which are	second generation thermal imaging capabilities to the Commander's Independent Thermal Viewer (CITV) (GPS) which are designed to significantly increase the capabilities of these Fire-Control sub-systems.	ilities to the Commander's Independent Thermal Viewer (CITV) the increase the capabilities of these Fire-Control sub-systems.	the C	omma le cap	nder's abilities	Indep	endent	r The	rmal ontrol	View sub-	er (Cl. syster	to	od Gu This u	and Gunner's Primary Sight This upgrade also allows for	Primary also a	Sight	for
future growth with	future growth without significant changes	s to the	• vehic	le arc	hitectu	G SO	that	nsertic	on of	futun .	e tech	golou	/ may	to the vehicle architecture so that insertion of future technology may be facilitated. These	ilitated	. Te	sse -
changes are des Arms Command	changes are designed to be exportable Arms Command & Control Systems and		ər Abra nize co	ams pomor	o other Abrams platforms, meet Army requirements for join maximize commonality with other Ground Combat systems.	s, me ith ot	et Arr her G	ny rec round	Con	nents ıbat (	tor jo systen	nint in	terope or this	to other Abrams platforms, meet Army requirements for joint interoperability with Combined I maximize commonality with other Ground Combat systems. For this effort procurement	with C	ombin	<b>D</b>
Tunds will include	tunds Will Include installation costs.																
DEVELOPMENT STATI	DEVELOPMENT STATUS / MAJOR DEVELOPMENT	MILESTONES:	NES:			PLA	PLANNED			AC	COM	<b>ACCOMPLISHED</b>					
	Preliminary Design Review		•		•	(r)	3095				3095	95					
	Critical Design Review		•	•		CA	2Q97				3097	97					
	Contractor Test & Eval.					(1)	3098										
	Development Test & Eval.		•	•	:	_	1099										
	Initial Operational Test & Eva	al.	•	•	•	CU	2099										
	IPR Production Decision		•		•	CA.	2099										
•	TDP Available					4	4099										
Installation Schedule:		-								-	ľ			-	li		
<u>u</u> r	Pr Yr FY 1997	+	-	FY 1998	6	- -	<u>-</u>	۲۲ 1999 م		+	-	FY 2000	~	4	آ <u>۲</u>	FY 2001	
Inputs Outputs	<b>.</b>			l l						-						-	15
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	FY 2002		FY 2003			Ĺ	FY 2004				FY 2005			To	_		Totals
	1 2 3 4	-	2	3	4	<u> </u>	2	9	4	-	7	ဇ	4	Complete			
Inputs	11 11 12	91	16	16	17									492	01		627
METHOD OF IMPLEME	METHOD OF IMPLEMENTATION: Contractor Teams		MINIST	PATIVE	ADMINISTRATIVE LEADTIME:	ij	9	Months	इ	Æ	ODUCT	ONLE	PRODUCTION LEADTIME:	9	Months	_	
Contract Dates:	FY 1997	A/N		Έ	FY 1998	N/A				፫	FY 1999	A/N	∢				
Delivery Date:	FY 1997	A/N		£	FY 1998	A/N				₹	FY 1999	N/A	∢				

						INDIVIE	UAL MC	INDIVIDUAL MODIFICATION	TION						,	Date		February 1998	, 1998	
MODIFICATION TITLE (Cont):		S	/sten	ı Enha	ıncemı	System Enhancement Package		(SEP)	GOM]	(SEP) [MOD 12] 1-96-05-4505	6-05-4	505								
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996	966	i	7007	-	0007	ľ	0007	ļ.	0000	ì	700		000		1	F		F	
	Otv S	<u>ه</u>	Č	8 188	0	\$   280   2	ŏ	888	Ē	- 1 2000 14 \$	ě	- 1 200    A    A	Oty \$002	8	Otv \$	5003	ð	69	0 4 <u>0</u>	¥ €
RDT&E PROCUREMENT Kit Quantity Installation Kits											25		45		65		492		627	
Installation Kits, Nonrecurring Equipment					<u>-</u>							46.5		82.8		107.4	-	655.5		892.2
Equipment, Nonrecurring Engineering Change Orders Data										2.9										2.9
Training Equipment Support Equipment Other					_															
Interim Contractor Support			· · · · · · · · · · · · · · · · · · ·																	
Installation of Hardware FY 1996 & Prior Eqpt Kits								· · · · · · · · · · · · · · · · · · ·												
FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits			**			<del></del>														
FY 2001 Eqpt kits FY 2002 Eqpt kits																				
TC Equip-Kits																				
Total installment					1	<b>-</b>	$\dashv$		1											
Total Procurement Cost			╝	_	$-\parallel$	-	$\parallel$			2.9		46.5		82.8		107.4		655.5		895.1

INDIVIDUAL MODIFICATION	FICATION	Date February 1998	Г
MODIFICATION TITLE: Embedded Battle Command (EBC) [MOD 13] 1	3] 1-96-05-4516		
MODELS OF SYSTEMS AFFECTED: M1A2			
DESCRIPTION / JUSTIFICATION:  Embedded Battle Command (EBC) is a part of Horizontal Battlefield Digitization (HBD). EBC is an annual software "drop" into each fielded M1A2 tank. There is no hardware associated with this modification. The purpose of EBC is to assure that all M1A2's have up to date and identical computer software with the latest State of the Art changes installed on a regular basis.	ittlefield Digitization (Hwith this modification.	IBD). EBC is an annual software "drop" into The purpose of EBC is to assure that all f-the-Art changes installed on a regular basis.	
There is no delivery or installation schedule in the normal sense of these terms. computers upgraded every year.	ense of these terms.	Each fielded M1A2 will have its onboard	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	PLANNED	ACCOMPLISHED	
Preliminary Design Review - · · · · · · · · · · · · · · · · · ·	2097 3097	309/ 4097	
Contractor Test & Eval.	1098	1098	
Development Test & Eval.	3098		
Initial Operational Test & Eval.	4098		
IPR Production Decision	2098		
Installation Schedule:			$\prod$
FY 1997 FY 1998	FY 1999	FY 2000 FY 2001	7
2	7		
		•	1.
2002 F	FY 2004	1 2 2005 To Totals	တ္
	2	7	
s N/A			
APLEMENTATION: Fid Svc Rep Inst ADMINISTRAT	ADTIME: 1 Months	PRODUCTION	
Contract Dates: FY 1997 N / A FY 1998 Delivery Date: FY 1997 N / A FY 1998	N/A A	FY 1999 N/A FY 1999 N/A	
		l	1

					INDIVIDI	JAL MOI	INDIVIDUAL MODIFICATION	N.						٦	Date		February 1998	1998	
MODIFICATION TITLE (Cont):	Ш	mbed	Embedded Battl		e Command		(EBC) [MOD 13]	D 13]	l i	1-96-05-4516	9								
FINANCIAL PLAN: (\$ in Millions)		1																	
	FY 1996 and Prior	<u> </u>	FY 1997		FV 1998		FY 1999	ΕV:	FY 2000	FY 2001	100	FY 2002	200	FY 2003	5003	T		TOTAL	-
	Oty \$	ά	\$	Qty	\$	Qty	\$	Ö	\$	Οţλ	\$	Qty	\$	Qt	\$	Oţ.	\$	οg	. ♣
RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data (Software Only) Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits									1.0		1.0		Ţ.		1.0		φ φ		ග ග්
Total Installment		+	+	+	+	+		$\downarrow$	,		,		+		,		ď		90
iotal Frocurement cost			$\parallel$	$\parallel$	$\parallel$	$\parallel$			5.		?		-		2:		0.0		9.0

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turret long duration illiary Power Unit ne wear. The EAPU turret bustle rack and spower for 10 to 12 agressional plus-up. The procured in Fig. 1164						NDIVIC	ŮAL M	INDIVIDUAL MODIFICATION	NOI							Date		February 1998	1998	
Stationary night defensive position, known as Silent Watch Mode, requires long duration light defensive position, known as Silent Watch Mode, requires long duration agine in order to generate the required electricity. The External Auxiliary Power Unit District Systems. The EAPU will be mounted in the left side of the turnst bustle rack and strictal systems. The EAPU will be mounted in the left side of the turnst bustle rack and strictal systems. The EAPU will be mounted in the left side of the turnst bustle rack and strictal systems. The EAPU will be mounted in the left side of the turnst bustle rack and strictal systems. The EAPU will be mounted in the left side of the turnst bustle rack and strictal systems. The EAPU will be mounted in the left side of the turnst bustle rack and strictal systems. The EAPU will be mounted in the left side of the turnst bustle rack and strictal systems. The EAPU will be mounted in the left side of the turnst bustle rack and strictal systems. The EAPU will be mounted in the left side of the turnst bustle and strictal side of the turnst bustle and strictal side of the turnst bustle and strictal side of the turnst bustle and strictal side of the turnst bustle and strictal side of the turnst bustle and strictal side of the turnst bustle and strictal side of the turnst bustle and strictal side of the side of the turnst bustle side of the side of	MODIFICATION TITLE:	Externe	ત્રી Auxiliar	y Pwr Ur		APU)	[MOE	14]1	-85-05	4057										
stationary night defensive position, known as Silent Watch Mode, requires long duration of requirement at greatly reduced fuel usage and without main engine wear. The EAPU to 28 Volts DC. The EAPU will be mounted in the left side of the turret bustle rack and strical systems. The EAPU will be mounted in the left side of the turret bustle rack and strical systems. The EAPU will be mounted in the left side of the turret bustle rack and strical systems. The EAPU will be mounted in the left side of the turret bustle rack and strical systems. The EAPU will be mounted in the left side of the turret bustle rack and strical systems. The EAPU will be mounted in the left side of the turret bustle rack and strical systems. The EAPU will be mounted in the left side of the turret bustle rack and strical systems. The EAPU will be mounted in the left side of the turret bustle rack and strical systems. The EAPU will be mounted in the EAPU will be mounted in the PRODUCTION LEAPTIME: 6 Months RY 1998 N/A	MODELS OF SYSTEM	S AFFECTE		11 = 0,	IPM1		M1A1 =	1836,	M1A2	0 =		-OTAL	ROMT	= 183	9					
streaming right about the required electricity. The External Auxiliary Power Unit of requirement at greatly reduced fuel usage and without main engine wear. The EAPU to generate the required electricity. The EAPU will be mounted in the left side of the turret bustle rack and strictal systems. The EAPU will be mounted in the left side of the turret bustle rack and tricial systems. The EAPU will be mounted in the left side of the turret bustle rack and tricial systems. The EAPU will be mounted in the left side of the turret bustle rack and tricial systems. The EAPU will be mounted in the left side of the turret bustle rack and tricial systems. The EAPU will be mounted in the left side of the turret bustle rack and tricial systems. The EAPU will be mounted in the left side of the turret bustle rack and tricial systems. The EAPU will be mounted in the left side of the turret bustle rack and tricial systems. The EAPU will be mounted in the left side of the turret bustle rack and tricial systems. The EAPU will be mounted in the left side of the turret bustle rack and tricial systems. The EAPU will be mounted in the left side of the turret bustle rack and tricial systems. The PRODUCTION LEADTIME: 6 Months PY 1999 N/A RP 1999 N/A	DESCRIPTION / JUSTI	FICATION:	Thrame 1		tation .	7	† 40 5	yianaja	1000	12.	2,4/00	9 0	ilent	Match	Mode	1201	irec lo	100	ration	
of requirement at greatly reduced fuel usage and without main engine wear. The EAPU xitical systems. The EAPU will be mounted in the left side of the turret bustle rack and xitical systems. The EAPU will be mounted in the left side of the turret bustle rack and xitical systems. The EAPU will be mounted in the left side of the turret bustle rack and xitical systems. The EAPU will be mounted in the left side of the turret bustle rack and xitical systems. The EAPU will be mounted in the left side of the turret bustle rack and xitical solution in the left side of the turret bustle rack and xitical solution in the left side of the turret bustle rack and xitical solution in the left side of the turret bustle rack and xitical solution in the left side of the turret bustle rack and xitical solution in the left side of the turret bustle rack and xitical solution in the left side of the turret bustle rack and xitical solution in the left side of the turret bustle rack and xitical solution in the left side of the turret bustle rack and xitical solution in the left side of the turret bustle rack and xitical solution in the left side of the turret bustle rack and xitical side of the turret bustle rack and xitical side of the turret bustle rack and xitical side of the turret bustle rack and xitical side of the turret bustle rack and xitical side of the turret bustle rack and xitical side of the turret bustle rack and xitical side of the turret bustle rack and xitical side of the turret side of the turret side of the turret bustle rack and xitical side of the turret side of the	idling of the AG	T - 1500	vehicle 1	nain eng	statioi jine ji	n orde	ارات بر 15	penerat	e the	requir	ed ele	ctricit	у. Т. Т	he Ex	ternal	Auxilia	ary Po	wer U	#: 	
Test   Second   Sec	(EAPU) will prov	vide power	er for thi	s type c	of requ	<b>Jireme</b>	int at	greatly	reduc	ed fu	esn le	ıge aı	nd wit	hout	main (	engine	wear.	The	EAPU	
The Army is procuring an additional 336 EAPUs as a result of an FY97 Congressional plus-up. The yare retrofitted with SEP (including the Under Armor EAPU).   A	continuously del	ivers 2.2	KW of p	ower at	28 ×	olts E	•	he EA	PU wi	⊟ be ı sits	mount	ed in	the l	eft sic and c	te of	the tur ovide u	ret bus oower	stle ra for 10	ck and to 12	
ILESTONES:	hours on one te	ank - full o	of diesel	fuel. Ti	are re	ny is partrofitte	rocurir od with	ng an a SEP (i	ddition	al 336 og the	EAPL Under	ls as a	a resu or EAF	It of ar 'U).	FY97	Cong	ession	al plus	-up. The	ø
ILESTONES:				•				•		)				•						
N	DEVELOPMENT STAT	IUS / MAJOI	R DEVELOI	MENT MI	LESTO	NES:			PLA	INED			ACC	OMPL	JSHEI			1		T
N A   ***   Second   N A   *		Preliminary	Design Re	view			•	•	2	1/ A	*					1	*	This is	a re-bu	À
N A   **   Procured in Figure   N A   **   Procured in Figure   N A   **   Procured in Figure   N A   **   Procured in Figure   N A   **   Procured in Figure   N A   **   Procured in Figure   N A   **   Procured in Figure   Procured in Fi		Critical Des	ign Review	,			•	1	۷.	<b>4/</b>	*							of an	item last	, # <u>;</u>
N/A ***   N/A		Contractor	Test & Ev	. <del>.</del>			•	•	۷.	٧/	*							procur	ed in FY	<u> </u>
N / A **   N / A **		Developmer	nt Test &	Eval.		•	•	•	<u>د</u>	١/ ٨	*						-	92.		
N / A **   N / A **   N / A **   N / A **   N / A **   N / A **   N / A **   N / A **   N / A **   N / A **   N / A **   N / A   N /		Initial Opera	ational Tes			•	•	1	<b>4</b>	۷   ۲	*									
Total   Tota		IPR Produc	tion Decisi	e			•		_	<b>∀</b> / }	*									
1   2   3   4   1   2   3   4   1   2   3   4   1   2   3   4   1   2   3   4   1   2   3   4   1   2   3   4   1   2   3   3   4   1   2   3   3   4   1   2   3   3   4   1   2   3   3   4   1   2   3   4   1   2   3   4   1   2   3   4   1   2   3   4   1   2   3   4   1   1164		TDP Avai	ilable							_	*								ļ	
1   2   3   4   1   3   4   4   1   3   4   4   4   4   4   4   4   4   4	Installation Schedule:																			
1   2   3   4   1   2   3   4   1   2   3   4   1   2   3   3   4   1   2   3   3   4   1   2   3   3   4   1   2   3   3   4   1   2   3   4   2   2   3   4   3   2   2   3   3   3   3   3   3   3		Pr ≺r	FY 1	- 1	$\dashv$	_	₹ 1998			잩					- 1			F		
TY 2003		Totals	- 5	8	4	╬		┚										2	6	4
FY 2003         FY 2004         FY 2005         TO         Tot           1         2         3         4         1         2         3         4         164	Outputs																	~		
FY 2003         FY 2004         FY 2005         TO         TO           1         2         3         4         1         2         3         4         1164 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>:</td><td></td></td<>																			:	
1   2   3   4   1   2   3   4   1   2   3   4   Complete		T.	Y 2002			Y 2003			F	2004				2005			To		Totals	als
ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 6 Months  PP 97 FY 1998 N / A FY 1999 N / A  PRODUCTION LEADTIME: 6 Months  FY 1999 N / A  FY 1999 N / A		-		4	-	2	3										mplete			
ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 6 Months P 97 FY 1998 N / A FY 1999 N / A AR 98 FY 1998 N / A FY 1999 N / A	Inputs							_									1164		<del>-</del>	1500
ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 6 P 97 FY 1998 N / A FY 1999 N / A R 98 FY 1998 N / A FY 1999 N / A	Outputs			-	_	_	_	$\dashv$	_									:		20 20 20 20 20 20 20 20 20 20 20 20 20
FY 1997 SEP 97 FY 1998 N/A FY 1999 FY 1997 MAR 98 FY 1998 N/A FY 1999	METHOD OF IMPLEM	ENTATION:	Contr./Dep	ot Teams		MINIST	RATIVE	LEADTI	Kiii	4	Month	S	PRO!	SUCTIC	N LEAL	YIME:		Months		
FY 1997 MAH 98 FY 1998 N/A FY 1999	Contract Dates:		FY 1997				ì	9661	₹ <b>?</b>				<u> </u>	n (	∢					
	Delivery Date:		FY 199,		86			1888	₹ Ž				Ľ L	88	¥ / ≥					

						INDIN	INDIVIDUAL MODIFICATION	ODIFIC	ATION							ľ	Date		February 1998	y 1998	
MODIFICATION TITLE (Cont):			xtern	al Aux	iliary F	External Auxiliary Pwr Unit	t (EA	J.	MOD	14] 1-{	(EAPU) [MOD 14] 1-85-05-4057	057									
FINANCIAL PLAN: (\$ in Millions)																					
	F	FY 1996	┦				ŀ						ŀ								
	and Qt	and Prior	ğ	FY 1997 tv \$	0	FY 1998 Otv 8	0	FY 1999 Otv 8	$\dagger$	FY 2000 Otv   \$	+	FY 2001 Otv \$	1.	FY 2002 Otv \$	8 8	FY 2003	8 8	₽	7C <b>\$</b>	Otv	<u>چ</u>
RDT&E PROCUREMENT Kit Quantity			)	336					<u> </u>		-					,		1164		1500	
Installation Kits Installation Kits, Nonrecurring			-																		
Equipment Equipment, Nonrecurring					8.0				•										32.6		40.6
Engineering Change Orders Data																				******	
Training Equipment												x-11									
Other										<u>-</u>											
Interim Contractor Support																					
					<u></u>		•														•
			<del></del>				1.978		·········												
Installation of Hardware																					
FY 1996 & Prior Eqpt Kits							,														
FY 1997 Eqpt Kits						336	2.0		,											336	2.0
FY 1999 Eqpt Kits									-												
FY 2000 Eqpt kits																					
FY 2002 Eqpt kits																					
FY 2003 Eqpt kits				,																	
TC Equip 1164 Kits			$\dashv$	$\dashv$	-	-	-	-	$\dashv$	-	-	$\dashv$	1	1				1164	-	1164	8.2
Total Installment			$\dashv$	$\dashv$		336	2.0	+	1					$\dashv$				1164	8.2	1500	10.2
Total Procurement Cost			$\parallel$	_	8.0	$-\parallel$	2.0	$-\parallel$				-							40.8		20.8

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				NDIN	DUAL M	INDIVIDUAL MODIFICATION	NO!						Date		February 1998	1998	
MODIFICATION TITLE:	1	External Auxiliary Pwr		Jnit Upgrade	(EAPUU)		NOD 1	[MOD 15] 1-97-05-4521	-05-452	Σ.							
MODELS OF SYSTEMS AFFECTED	IS AFFECTE	 ₩	= 0, IPM	IPM1 = 0,	M1A1	M1A1 = 1500,	M1A2 = 0	0 =	ΤΟ.	TOTAL ROMT	MT = 1500	200					
DESCRIPTION / JUSTIFICATION:	'IFICATION:														į		
This modification is the Upgrade of 1500ea External Auxiliary Power Units (EAPU's) procured / fielded in FY	tion is the	Upgrade of	1500ea	Exter	nal Au starter	xiliary   adde	Power an im	500ea External Auxiliary Power Units (EAPU's) b a 24 volt starter adds an improved voltage	EAPU	s) proc	cured / lator a	fielded nd a N		91 / 94. standard	The		
recepticle and remove the 24 volt battery. These changes will increase the reliability and durability of the existing EAPU's.	remove th	e 24 volt ba	tterv.	These	change	s will	increas	se the	reliabili	y and	durab	ility of	the exi	sting E	APU'S		
Installation costs for this modification are included in the hardware cost and the prime hardware contractor will also install	s for this	modification	are incl	nded in	the I	nardwar	e cost	and t	ne prim	e har	dware	contrac	tor will	also ir	nstall		
the modification.	_																
-										!							
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	TUS / MAJOR	R DEVELOPMEN		MILESTONES:			PLA	PLANNED		VI	CCOM	<u>ACCOMPLISHED</u>	Q				
	Preliminary	Preliminary Design Review		•			ñ	3095			g	3095					
	Critical Des	Critical Design Review			•	•	Ñ	2096			2096	96					
	Contractor	Contractor Test & Eval.		•		•	4	4Q96			4096	96					
	Initial Opera	Initial Operational Test & E	Eval.	•		•	ผิ	2097			2097	97					
	IPR Produc	IPR Production Decision		•		•	4	4097			4Q97	26					
	T D P Available	able		•	•	•	Ñ	2Q98									
Installation Schedule:																	
	Pr Yr	FY 1997		1	FY 1998	_	$\downarrow$	FY 1999	- 1	1		FY 2000			FY 2001		
	Totals	1 5	3 4	=	2	3 4	4 0	2	e	4	+	7	ю 4		N	၈	4
Inputs Outputs						8											
						ļ			ŀ					Ì			
	F	FY 2002		FY 2003	83		Ŧ	FY 2004			FY 2005	ا		ဂ္		ř	Totals
	1	2 3 4	1	2	3	4	-	2 3	4	=	2	9	4	Complete			
Inputs																	1500
Outputs					-		-		1				_				1500
METHOD OF IMPLEMENTATION: Contractor Inst.	MENTATION:	Contractor Inst.		DMINIS	TRATIVE	ADMINISTRATIVE LEADTIME:	ΨË	0	Months	<u>~</u>	RODUCI	PRODUCTION LEADTIME:	DTIME	4	Months		
Contract Dates:		FY 1997	FEB 98		<u>L</u>	FY 1998	Y Z			Ĺ	FY 1999	Υ <u>.</u>	_				
Delivery Date:		FY 1997	NOC		և	FY 1998	N/A			Ĺ	FY 1999	A/N	_				

Г		·		es)	4.2			2.4
			TOTAL		2	9	2	-
y 1998			F	ğ	1500	1500	1500	
February 1998				s				
			5					$\vdash$
			L	ģ				$\sqcup$
Date			FY 2003	8				
			FΥ	ĝ				
				\$				
			FY 2002	Ц				Н
	4521			ð				
	-90-2		100	49				
	(EAPUU) [MOD 15] 1-97-05-4521		FY 2001	à				
	1 00			\$				П
	JW]		FY 2000					H
N O	PUU			ð				Н
INDIVIDUAL MODIFICATION			FY 1999	<del>so</del>				
MODI	grade		ΕY	à				
'IDUAL	it Up		8	\$				
NDI.	wr Ur		FY 1998	δţ		1500	1500	
	External Auxiliary Pwr Unit Upgrade		L	Ö	رن 4	<del></del>	_	2.4
	Auxil		FY 1997	8				
	ernal		F	ĝ	1500			
	EX	g	ğ ğ	₩				
		4 A	and Prior	λίο				
			-	9				Ш
	MODIFICATION TITLE (Cont):	FINANCIAL PLAN: (\$ in Millions)			ID I &E  ROCUREMENT  Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment	upport Equipment ther terim Contractor Support tallation of Hardware FY 1996 & Prior Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits C Equip-Kits		ost
	TITLE	ri ( <del>\$</del>			Nonre nrecurri ange C	tor Sup tor Sup ior Eqp ior Eqp ior Eqt i - Kits i - Kits i - Kits i - Kits i - Kits i - Kits i - Kits i - Kits i - Kits	ŧ	nent C
	VTION	L PLA			EMENT tity on Kits, on Kits, on t nt, ng Ch	Equipmontace contrace of Ha 16 & Pr 17 Eqpi 18 Eqpi 19 Eqpi 10	stallme	rocurer
	DIFICA	ANCIA			HD I &E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurrin Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment	Support Equipment Other Interim Contractor Support FY 1996 & Prior Eqpt K FY 1997 Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt kits FY 2002 Eqpt kits FY 2003 Eqpt kits FY 2003 Eqpt kits FY 2003 Eqpt kits	Total Installment	Total Procurement Cost
	Ş ¥	Z Z			5 4 2 5 5 5 9 9 9 5	<u>8</u> <u>8</u> <u>9</u> <u>9</u>		-

<b>lodification</b>
Individual N
Exhibit P-3a

					INDIN	DUAL N	INDIVIDUAL MODIFICATION	TION							Date		February 1998	1998	
MODIFICATION TITLE:	. NBC Fire Warning	e Warnii	BN) bu	CFW)	[MOD	D 16]	16] 1-97-05-4524	5-4524											
MODELS OF SYSTEMS AFFECTED	AS AFFECTEI		M1 = 0,		IPM1 = 0,		M1A1 = 4327,	M1A2 = 0	0 =	·	TOTAL	ROMT	TOTAL ROMT = 4327						
DESCRIPTION / JUSTIFICATION: The NBC Fire Warning (NBCFW) modification is an NBC (Nuclear Chemical &	TIFICATION: Warning (N	JRCEW	modifie	ration	is	NBC	(Nucle	ar. C	emica	8 B	iologic	vs (lea	stem	Biological) system safety fix.		It addresses the	esses	the	
problem of NBC system fires caused by	S system f	ires cau	sed by	over	heatin	g. T	overheating. The NBCFW will provide for an audible warning alarm in the crew CVC	¥	ill pro	vide f	oran	audibl	e war	ning a	larm ir	the c	rew C	Q N	
helmet that sounds when the NBC sponson over-temperature light illuminates. This audible warning will allow tank crews to	nnds when	the NE	SC spor	nosu	over-	tempe	ature	ight ii	umina	tes.	This	andible	warn	ing w	allov	/ tank	crews	to take	ê e
the early action necessary to properly deal with an NBC little life. Only the MIA1 requires this not have the NBC system on board and M1A2's are being modified through a software change.	necessary IBC syster	on on v	peny q oard an	d M1	A2's a	NEC PE	iliter il ng mo	diffied	throug	e ™i	oftwar	duires re cha	nge.	Only the MIAI requires this incumication.		ח מ ה	Earlier moders do	200	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	TUS / MAJOR	DEVELO	PMENT N	//LEST	ONES:			PLA	ANNED			ACC	OMPL	ACCOMPLISHED					
	Preliminary Design Review	Design Re	view						2096				3096						
	Critical Design Review	gn Reviev	4		•		•	., ,	3097				3097						
	Initial Operational Test & IDD Production Decision	tional Tes	t & Eval.					- ((	2000				2						
	T D P Available	ple	;				•	1 7	4098										
Installation Schedule:	Pr Yr	FY 1997	266			FY 1998		_		FY 1999		_	F	FY 2000			FY 2001	100	
	Totals	1 2	3	4	┝	7	ဧ	4	-	2	3	4	-	2 3	4	1	2	3	4
Inputs											318					418	315	700	
Outputs								_				418	418	418	418	2/2	250	<u> </u>	
		FY 2002	-		FY 2003	60	F	Ĺ	FY 2004		_		FY 2005			P		<u>°</u>	Totals
	-	2 3	4	-	7	6	4	_	2	8	4	_		3 4		Complete			
Inputs																1604			4327
Outputs						-	_	_								1604			4327
METHOD OF IMPLEMENTATION: Contractor Teams	(ENTATION:	Contracto	r Teams	ΑI	SINIMO	<b>TRATIVI</b>	ADMINISTRATIVE LEADTIME:	IME:	4	Months	hs	PRO	OUCTIO	PRODUCTION LEADTIME:	TIME	80	Months		
Contract Dates:		FY 1997	Z 2	<b>«</b>		<u></u> }	FY 1998 EV 1000	<b>Y</b>	_			FY 1999 FY 1999	66	JAN 99	66 8				
Delivery Date.		1881	Ž	إ			0661					<u>-</u>	2						

				INL	ואוטואוי	MOUR	INDIVIDUAL MODIFICATION							נ	Date		February 1998	1998	
MODIFICATION TITLE (Cont):	ä	NBC Fire Warni		ng (NE	3CFW)	[MOI	(NBCFW) [MOD 16] 1-97-05-4524	-97-05	-4524										
FINANCIAL PLAN: (\$ in Millions)																			
	FY 1996	77	100	A 4000	900	74	9	2	5	2000	-	2000	9	2000	50	F	ļ	14101	-
	Oty St	Σ	\$	Ž Š	980	" ≥ð	+	Oth Suga	十		5 69	Z A	8	Z A	3 8	₹	69	<u>5</u>  -	- S
RDT&E PROCUREMENT	ļ							<del>                                     </del>											
Kit Quantity						1672		1051								1604		4327	
Installation Kits																			
Equipment							4.1		2.6				•				4.5		11.2
Equipment, Nonrecurring																			
Engineering Change Orders																			
Data Troining Equipment	- , . ses																		
Support Equipment						<u>.</u>													
Other														· · · ·					
Interim Contractor Support																	•		
					<u>·                                      </u>												•		
EV 1006 9 Drive East Vita																		•	
EV 1007 East Mits																			
EV 1000 East Vita																			
FY 1999 Fapt Kits								1672	0.7									1672	0.7
FY 2000 Eqpt kits										1051	0.4	,						1051	0.4
FY 2001 Eqpt kits																	-		
FY 2002 Eqpt kits																			
FY 2003 Eqpt kits																			
TC Equip 1604 Kits																1604	0.8	1604	0.8
Total Installment								1672	0.7	1051	0.4					1604	0.8	4327	1.9
Total Procurement Cost							4.1		3.3		0.4						5.3		13.1

					=	JOINION,	AL MOD	INDIVIDUAL MODIFICATION	NC							Date		February 1998	y 1998	
MODIFICATION TITLE (Cont):		<u>H</u>	nd-He	Hand-Held Fire		Extinguisher		(HHFE) [MOD 17] 1-97-05-4525	OD 17	] 1-97-	05-452	ည								
FINANCIAL PLAN: (\$ in Millions)	FV 1996	900																		
	and Prior	rior	٤	FY 1997		FY 1998	FY	FY 1999	FY	FY 2000	FY 2001	1001	FY	FY 2002	FYS	FY 2003	TC		TOTAL	٦.
100	ð	€	ð	€	ð	49	ð	မှာ	ð	€	ĝ	\$	ð	€9	ĝ	69	ģ	€	δ	es.
PROCUREMENT Kit Onantity									12000			_							5	
Installation Kits									3										3	
installation Kits, Nonrecurring Equipment										1.8										1.8
Equipment, Nonrecurring																				
Cata						-												•••		
Training Equipment																				
Support Equipment Other																				
Interim Contractor Support																				
																_				
Installation of Hardware												_								
FY 1996 & Prior Eqpt Kits												_								
FY 1997 Eqpt Kits																				
FY 1998 Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt kits																				
-Y 2001 Eqpt kits														_						
-Y 2002 Eqpt Kits														_						
Y 2003 Eqpt kits																				
Total Installment					1		1													
Total Procurement Cost					L					ă,										4 0
otal rioculement cost										9.										1.5

Modification	
Individual	
Exhibit P-3a	

					<u>S</u>	VIDUA	LMOD	INDIVIDUAL MODIFICATION	NO NO								Date		February 1998	1998	
MODIFICATION TITLE: M1,	M1A2 Field Mods	M Mo		2FM)	(A2FM) [MOD 18] 1-97-05-4534	18]	1-97-	05-45	34												
MODELS OF SYSTEMS AFFECTED:	CTED:		2	M1A2																	
DESCRIPTION / JUSTIFICATION: M1A2 Field Modifications (A2FM) represents funding for a continuing series of upgrades for M1A2 unique LRU's (Line Replaceable	ION:	A2FM)	repre		fund	ing fc	z a	contin	uina	series	o o	updra	sep	for	1A2	unian	e LRI	J's (Lii	ne Rep	laceabl	<u>e</u>
Unit's) and / or SRU's (Shop Replaceable Unit's). Examples of these include the Fire - Control Electronics Unit (FCEU), Commande	(Shop	Repla	ceable	Unit	's) . "	Exan	ples	of the	ese i	nclud	e the	Fire	<u>0</u>	ntrol	Electr	onics	Unit	(FCÈU	Examples of these include the Fire Control Electronics Unit (FCEU), Commander's	nander	رگ آ
integrated Display (CiD) and validus electronic replacement is both feasible and cost effective.	n, and asible a	and c	us ere ost ef	fective	5 °.	iere i	s no	There is no set quantity for this modification.	yuanti	ty for	this	mod .	ificati	on.	Thes	odn e	rades	These upgrades will be	e appli	applied to	
every fielded M1A2 tank as they are proven and approved and the number of fielded M1A2's will continue to increase. program is expected to "run" as long as M1A2 production continues.	nkast "run"	hey a as lo	ire pri ng as	oven M1A	ven and approved and the M1A2 production continues.	tpprov ductic	red a	nd th	e nui 3s.	nber	o <b>j</b>	elded	M 1	/2's v	∭ S	ontinu	. <u>-</u> •	ncreas	e. This	(A)	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: IPR Production Decision TDP Available	'US / MAJOR DEVELOPN IPR Production Decision T D P Available	EVELOI Decisi	PMENT on	MILES	TONE				PLA	ANNED 2096 2096 2096			7	<u>ACCOMPLISHEI</u> 2096 2096	MPLISI 2096 2096	SHEL					
Installation Schedule:		FY 1997	161				FY 1998				FY 1999				FY 2000	000			FY 2001	둳	
Totals Inputs Outputs	-	2	8	4		2	3		4	-	N	е п	4	F	N	3	4		2	6	4
	FY 2002	88			FY 2003	800			E	FY 2004		-		FY 2005	305			To		10	Totals
_	2	3	4	F	2	3	4		_	2	3	4	F	2	3	4		Complete			
Inputs Outputs																					
METHOD OF IMPLEMENTATION: Contractor Team	ION: CO	ontractor FY 1997	Team	H. P.	ADMINISTRATIVE LEADTIME:	STRA	TIVE LEA	EADTII)	ME: FEB	38		Months	a. u	PRODUC FY 1999	CTION	PRODUCTION LEADTIME: FY 1999 FEB 99	TIME:	ဖ	Months		
Delivery Date:		FY 1997		AUG 97			FY 1998	8	AUG				"	FY 1999		AUG 9	66				

П			T			4.1 9.0 9.0 0.1 0.1 0.1 0.0	13.7	13.7
			TOTAL	\$				_
February 1998			2	Qty				
Februa			0	\$		0.6	6.0	6.0
			TC	Qty				
Date			003	\$		1.2	1.2	1.2
٥			FY 2003	Qty				
			200	8		1.0	1.0	1.0
			FY 2002	Qty				
			100	\$		9.0	2.0	2.0
			FY 2001	Qty				
	534		000	\$		1.0	1.0	1.0
z	7-05-4		FY 2000	Q Ş				
INDIVIDUAL MODIFICATION	(A2FM) [MOD 18] 1-97-05-4534		666	\$		0.2	0.2	0.2
LMODIF	MOD		FY 1999	Qty				
IVIDUA	PFM) [		968	\$		6,	6'0	0.9
NON	ds (A2		FY 1998	Qty				
	M1A2 Field Mo		266	<del>S</del>		4.	1.4	1.4
	\2 Fie		FY 1997	Qty				
	M1/	g	ان ق	\$				
		EV 1006	and Prior	Qty				
	ä	ons)		٢	5)	its	<u>L_L</u>	
	MODIFICATION TITLE (Cont):	FINANCIAL PLAN: (\$ in Millions)			RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits Installation Kits, Nonrecurring Equipment, Nonrecurring Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support	Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits TY 2003 Eqpt Kits	Total Installment	Total Procurement Cost
	MOD	FINA			RDT&E PROCU Kit Que Installe Installe Installe Equipn Equipn Equipn Engine Data Trainin Suppo Other Interim	est ET TTTTTTTTTT	۱۲	욘

						INDIVIDUAL MODIFICATION	AL MOL	<b>JIFICATIC</b>	NC							Date		February 1998	7 1998	
MODIFICATION TITLE (Cont):		Ĭ	Matrix Support	uppor		(MXSP) [MOD 19] N/A	00 15	9] N / A												
FINANCIAL PLAN: (\$ in Millions)	FY 1996	966	_																	
	and Prior	rior	占	FY 1997	<u> </u>	160	E C	FY 1999	F	FY 2000	FY;	FY 2001	ΕΥ	FY 2002	FY	FY 2003	2	1 1	TOTAL	
RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment Equipment Training Equipment Support Other Interim Contractor Support	È	<del>22</del>	2	<del>v</del>	SO	S O O	25	99 89	5	90	E C C C C C C C C C C C C C C C C C C C	9 0	È	9.00	A CONTRACTOR OF THE CONTRACTOR	9.00	<u> </u>	&	È	8
Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt Kits FY 2003 Eqpt Kits TC Equip-Kits Total Installment					l u	C		C		C						I				i
lai Procurement Cost					0.0	o		Ö	0	0.0		9,0		0.0		o.o		3.4		6.7

						Ę	MIDU	AL MO	INDIVIDUAL MODIFICATION	NOF								Date		Febru	February 1998	
MODIFICATION TITLE:	Prior	Year	Mod II	Prior Year Mod Installation (PYMI) [MOD 20] N / A	tion (	PYM	[W	S GC	/ N [0	A												
MODELS OF SYSTEMS AFFECTED:	AFFECT	TED:	Σ	M1 = 355,	1 1	PM1	1PM1 = 892,	1	M1A1 = 4351		M1A2	M1A2 = 1079	62		TOTAL	RQN.	TOTAL RQMT = 6847.	1847.				
DESCRIPTION / JUSTIFICATION: Continuing effort to install / apply modification kits procured during or before FY90.	ICATION to insta	٠ اار	n ylar	nodific	ation	kits	procu	led (	Juring	or d	efore	FY9		This	effort	was	prev	riously	This effort was previously budgeted and	eted a	þ	
executed within O&MA (P7M).	&MA (	(P7M)	 B	Beginning in FY90 this effort transitioned from O&MA to PAA funding.	ni gr	FY9	this	effor	rt trar	sition	ed fr	) mo	7&M/	<b>Q</b>	PAA	fund	ing.	•	)			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: There are no hardware milestones associated with this program	IS / MAJO	OR DE	VELOF	MENT	MILES h this	MILESTONES:	1	l find	ling de	failed	here-in	i si fo	å å	instalk	ation	Mod	ificatio	n Kits	All funding detailed here-in is for the installation of Modification Kits procured during or	1 during	6	
before FY90.						i L			P			! !										
Installation Schedule:	-						l			-			٩	ſ					-		100	
L F	Totals	+	2   397	3	4	-		200	6.	4	-	2   23	, e	4			2	3	4		2 3	4
Inputs	6847	-								_	╀	$\vdash$					_	-				
Outputs	6408	8	66	66	66	2	7		_	$\dashv$	$\dashv$	$\dashv$	$\dashv$					-	$\dashv$			
	•	FY 2002	ع			ξ	FY 2003		_		FY 2004		$\vdash$		È	FY 2005		_	-	10		Totals
	-	~	ह	4	F	2		8	4	_	2	3	4	F	2		3	4	Complete	<b>.</b>		
Inputs Outputs																						6847 6847
METHOD OF IMPLEMENTATION: N/A	NTATION	z	<b>V</b>				STRA	TIVE	ADMINISTRATIVE LEADTIME:	W W W	ž	N / A Months	sutuc		PROD	UCTIC	N LE	PRODUCTION LEADTIME:		N/A Months	Š	
Contract Dates:		Ĺ	FY 1997		A/N			FY 1998	966	A/N	_				FY 1999	66	A/A	_				
Delivery Date:		iL.	FY 1997		/ A			FY 1998	866	N/A					FY 1999	66	N/A	ار				

		-		•		70.4		70.4	70.4
1998			TOTAL	6847		6847		6847	
February 1998				<b>&gt;</b>					
			1	)					
Date			003	•					
J			FY 2003						
			FY 2002	,					
			ΕY						
			8	<del>)</del>					
			F	<u> </u>					
	N/A		FY 2000						
TION	D 20]		Н						
ODIFICA	MI) [MC		FY 1999	· · · · · · · · · · · · · · · · · · ·					
INDIVIDUAL MODIFICATION	n (PYI		Н			r C		0.5	0.5
/INDI/	Installation (PYMI) [MOD 20] N / A		FY 1998	<u> </u>			ļ.	42	
			H	<b>)</b>		4	3	4.9	4.9
	Prior Year Mod		FY 1997			307		397	
	Prk	FY 1996	and Prior	<b>)</b>		C v			65.0
		L	and	6847		A008		6408	
	MODIFICATION TITLE (Cont):	FINANCIAL PLAN: (\$ in Millions)		RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits Equipment	Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other	Installation of Hardware	FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt Kits FY 2003 Eqpt Kits TC Equip-Kits	Total Installment	Total Procurement Cost

Modification	
Individual	
Exhibit P-3a	

			QNI	VIDUAL	INDIVIDUAL MODIFICATION	TION						Date		February 1998	860	Г
MODIFICATION TITLE:	M1A1-D Integration Kit		OSIP NO. 21	21												
MODELS OF SYSTEMS AFFECTED:	S AFFECTED:	M1 =	0,	1PM1 = (	0, M1A1	Ħ	1535,	M1A2	0 =		TOTAL	ROMT	= 1535	ري ري		
DESCRIPTION / JUSTIFICATION:  This modification provides an integration kit for the Force XXI Battle Command Brigade and Below (FBCB2) into the M1A1 tank. Specifically, it complements the basic FBCB2 C2 integration kit by providing a far target designate capability for M1A1 tanks. The funding requested outfits the Army's first digitial division. This modification includes integration of a pointing device into the tank and rework of the tank computer to provide range and elevation data necessary for far target designate. The installation costs for this modification are included in the hardware costs.	FICATION: provides an inte asic FBCB2 C2 ii rst digitial division e range and elev.	gration kit Integration Integr	or the Fi	orce XX viding a on incla y for far	it for the Force XXI Battle Command Brigade and Below (FBCB2) into the M1A1 tank. Specific n kit by providing a far target designate capability for M1A1 tanks. The funding requeste modification includes integration of a pointing device into the tank and rework of the tank and rework of the tank and rework of the tank and rework of the tank a necessary for far target designate. The installation costs for this modification are include	Comma get de egration esigna	ind Brigg signate ο α α te. The	tde and capabl pointin install	d Belov Ility for ig devic	v (FBCE M1A1 se into costs fe	32) into tanks the tai or this	Brigade and Below (FBCB2) into the M1A1 tank. Specifical nate capability for M1A1 tanks. The funding requested of a pointing device into the tank and rework of the tank. The installation costs for this modification are included.	A1 tank funding ework c ation a	Special regues of the ta	fically, i sted nk ded in	# _
_																
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	US / MAJOR DEVEL		MILESTONES:	,,		PLA	PLANNED		¥	<b>ACCOMPLISHED</b>	LISHE					
	Preliminary Design Review Contractor Test & Eval.	Review :val.				N W	2098 3098									
	Critical Design Review	ме				4	4Q98									
	IPR Production Decision TDP Available	ision				4 -	4098 1099									
												:				
Installation Schedule:	Pr Yr   FY	FY 1997		FY 1998	86	_	FY 1999	666			FY 2000			FY 2001	-	
	-	2 3	4	2	3	4	1 2	3	4	-	2	3 4	1	2	3	4
Inputs Outputs									52	100 25	100					
	FY 2002		FY 2003	903		FY	FY 2004			FY 2005			To		Totals	sls
	1 2	3 4	1 2	3	4	<b>-</b>	2 3	4	-	2	ဇ	<del>δ</del>	Complete			
Inputs													1410			1535
Outputs The Total Total	TATION!	 		TA GTO	ADMINISTRATIVE I SADTINE:	  -   <u> </u>	  -	Months		POOD ICTION FADTIME:	- NO	TIME.	21.	Months		3
Contract Dates:	ENTATION: COMMERCION	01 16all1 97 N/A		בו שב ביים	IVE LEAD! FY 1998	۷ ۷ ۱	ч		<u> </u>	FY 1999	Z AN	66		2		
Delivery Date:	FY 1997			L.	FY 1998	A/N			Œ	FY 1999	AUG	66				

TON TITLE (Cont);   M1A1-D Integration Kit OSIP NO. 21   PLAN: (\$ in Millions)   FY 1996	99 FY 200 \$	Aty \$	Cly \$	FY 2003	1410	\$ QIY 1535 1535 271.4 2	FAL \$
(\$ in Millions)   FY 1996	0.3 FY 200	7.500	7.500		1410 TC	0 -	≷
PY 1996	0.3 Qly FY 200	7.200	7.20	2,500	Oty TC	σ =	<u> </u> ₹
And Fried	0.3 C.0				Qty 2410	0 -	<b>₹  </b>
Nonrecurring Nonrecurring Incurring Inge Orders ent ent ent ent or Support or Support or Eqpt Kits	0.3				1410		
Nonrecurring recurring recurring ange Orders ent ent ent ent ent ent ent ent ent ent	20.3						
rders oort  Kits	20.3						
ont Sort	20.3				27	4.	291.7
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Eqpt k							
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TC Equip 1410 Kits					1410	1410	
Total Installment 125	125				1410	1535	
nt Cost						271.4	291.7
	50.01				1	1	

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ition Sheet					February 1998		
Appropriation / Budget ActMty/Serial No:	al No:					P-1 Item Nomenclature:	ī <del>0</del> :					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS/1/Tra	icked Combat Vehicle		•			ABRAMS U	ABRAMS UPGRADE PROGRAM (GA0750)	(GA0750)		
Program Elements for Code B Items:	s:			Code:	Other Related Program Elements:	am Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qtv	172	34	100	120	120	120	120	105	06	88		1069
Gross Cost	658.0	132.2	440.1	501.0	586.8	666.2	667.5	630.1	595.6	675.3	344.3	5897.1
Less PY Adv Proc	196.7	33.9	181.3	297.2	258.2	253.5	262.9	242.7	153.6	144.3		2024.4
Plus CY Adv Proc	230.6	181.3	297.2	258.2	253.5	262.9	242.7	153.6	144.3			2024.4
Net Proc (P-1)	691.9	279.6	556.0	462.0	582.2	675.6	647.3	541.0	586.3	530.9	344.3	5897.1
Initial Spares	1.6	2.7	17.1	9.2	13.7	9.8	9.6	10.8	16.9	16.0	38.0	145.7
Total Proc Cost	693.5	282.3	573.1	471.2	595.8	685.4	657.2	551.8	603.2	546.9	382.3	6042.8
Flyaway U/C	3.5	3.6	3.7	3.6	4.3	4.9	4.9	5.2	5.7	6.8		
Wpn Sys Proc U/C	3.8	4.0	4.6	4.3	5.0	5.6	5.6	6.1	6.8	7.9		
				4	A Johnson b	The Heart December of A for the first of The Heart of December will reconstituted \$44 Tonks to the	Carrette date	The Linearody	Drogram seil	Jan inigation in	A A 4 Tonke to	440

DESCRIPTION: The Abrams Tank Upgrade Program supports the Department of Army vision for the future. The Upgrade Program will reconfigure M1 Tanks to the M1A2 configuration making it a more survivable and lethal tank. This includes the Commander's Independent Thermal Viewer (CITV), Improved Commander's Weapon Station (ICWS), Position Navigation (POS/NAV) equipment, Radio Interface Unit (RIU), Core Architecture, D. U. Armor, 120mm Gun and Nuclear, Biological and Chemical (NBC) protection. In FY99 2nd Generation Forward Looking Infrared (FLIR) and vehicle core electronic upgrades will be cut into production.

JUSTIFICATION: The Upgrade Program will modernize the U.S. Army's armor force to enhance the combat effectiveness of the Abrams Tank Fleet and maintain the key elements of the tank industrial base.

Exhibit P-5. Weapon	Ť	Appropriation/ Budget Activity/Serial No:	net Activity/S	erial No:		P-1 Line Item	P-1 Line Item Nomenclature:		ř	Weapon System Type:	ype:	Date:	
WTCV Cost Analysis		PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	OF WPNS &	TRKD CMBT It Vehicles		ABRAMS U	ABRAMS UPGRADE PROGRAM (GA0750)	RAM (GA0750)				Febr	February 1998
WTCV	₽		FY 96	-		FY 97			FY 98			FY 99	
Cost Elements	СБ	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qfy	UnitCost	TotalCost	Οţλ	UnitCost
	H	000\$	Each	000\$	000\$	Each	\$000	000\$	Each	\$000	000\$	Each	\$000
1. Basic Vehicle	4	215393	100	2154	293949	120	2450	301095	120	2509	322228	120	2685
2. Armor	:	35742	8	447	27569	122	226	39292		325	40186	120	335
3. H/TEU		5850	200	29	7170	240	30	6748		28			
4. Engine (DECU)		2347	9	23	2655	120	22	3072		26	3114		26
٠.		22684	100	227	22534	120	188	23482		196	23799	120	198
		1379	200	7	1491	240	9	1375		9	1375		9
		32711	100	327	39485	120	329	39347		328	1805		15
8. Track		3327	15600		2678	18720		5696	_		2696	_	
_ '		933	3200	Ç	1421	3840	Ċ	1421	8	•	1421	8	ļ
10. Gun Mounts		2142	သို့ ငိ	4 43	2057	9 5	8 G	2558		43	3290		22
12. Driver's Night Viewer		539	3 6	- 10	599	2 2	22	617	2 5		19461	2 5	N 4
		752	100	80	804	120	7	769	_	9	915		σ.
-		684	100	7	205	120	4	663		9	672		9
		268	09	6	826	120	8	1049		6	1135		6
		3376			753			18400			15600		
17. Collitati Eligineering 18. Project Mot Administration		59087			62557			65162			72083		
		7913			491			4324			4361		
•		2992			245			2270			3251		
		10901			2643			6956			7015		
22. Quality Support		1184			926			1080			1089		
23. Testing (EDT)		41 14 707		<del></del>	41/2			423/			42/3 63/		
		10884			8236			8389			8735		
								0006			96936	120	802
27. SIS CZ FFIA UI 28. Pre Mod Denot Maint								1038 24316	120	203	1017	130	NE 0
			•		-			1		3			}
TOTAL		440100			501046			586799			666195		
Gross P-1 End Cost		440100	100	4401	501046	120	4175		120	4890		120	5552
Less: Prior Year Adv Proc		181306	-		297218			258171			253534		
Net P-1 Full Funding Cost Plus: P-1 CY Adv Proc		258794			203828			328628 253534			412661		
Other Non P-1 Costs		19774			24955								
Initial Spares Mods	•	17057			9248			13662			0086		
TOTAL		592843			496202			595824			685403		

									Date:		
	Exhibit P	Exhibit P-5a, Budget Procurement History and Planning	istory an	d Planning					Fe	February 1998	8
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CN	Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat		Weapon System Type:	п Туре:		P-1 Line Item Nomenclature:	lomenclature:	Ienclature:	20V 50 MV	9	
Min Cont Classics	Vehicles	Contractor and Location	Contract	OOR jo exiland	Award Date	Date of Firet	ALC:	Interport	Specs	ete	RFP Issue
Fiscal Years			Method and Type			Delivery	Each	\$000	Avail Now?	Revsn Avail	Date
1 Basic Vehicle									T	t	
FY 96		GDLS/1	/2(1)	TACOM-Warren	96-InC	Oct-96	100	2154	Yes		Jan-95
FY 97		GDLS/1		TACOM-Warren	Dec-96	Aug-97	120	2450	Yes		Jan-95
FY 98		GDLS/1		TACOM-Warren	Feb-98	Aug-98	120	2509	Yes	<del>_</del>	Jan-95
FY 99		GDLS/1	/2(4)	TACOM-Warren	Feb-99	Ang-99	120	2685	Yes	<u> </u>	Jan-95
2 Armor/3											
FY 96		LITCO/5	SS/CPFF	DOE/4	Mar-95	Apr-96	80	447	¥ Z		Ą
FY 97		LITCO/5		DOE/4	Mar-96	Feb-97	122	226	₹		¥
FY 98		LITCO/5		DOE/4	Feb-97	Feb-98	121	325	Ϋ́		Ą
FY 99		LITCO/5	SS/CPFF	DOE/4	Jan-98	Feb-99	120	335	¥		¥
3 H/TEU			•								
FY 96		GDLS/1	SS/FFP	TACOM-Warren/6	Apr-95	Apr-96	200	29	Yes		
FY 97		GDLS/1	C/FFP	TACOM-ACALA/7	May-96	Feb-97	240	30	Yes	_	Feb-96
FY 98		GDLS/1	OPTION	TACOM-ACALA/7	Mar-97	Feb-98	240	28	Yes		Feb-96
	0				•						
4. Engine (DECO)/10	01.16	Allica Signal (8	OH!	TACOM-Warren	Eoh.og	Anr.08	5	20	>00	_	A10-04
FV 97		AlledSignal/8		TACOM-Warren	Mar-96	Feb-97	2 6	3 6	S >		Aug-94
ξ <u>γ</u>		AlledSignal/8		TACOM-Warren	Apr-97	Feb-98	120	28	Xes		Aug-94
FY 99		AlliedSignal/8		TACOM-Warren	Jan-98	Feb-99	120	56	Yes	. 0,	Sep-97
Tronging											
5. Tansmission FY 96		Allison Transmission Div/9	OPTION	TACOM-Warren	Apr-95	Apr-96	100	227	Yes		Oct-93
FY 97		Allison Transmission Div/9	NOIL	TACOM-Warren	Dec-95	Feb-97	120	188	Yes	_	Oct-93
FY 98			SS/FFP/CF	SS/FFP/CFTACOM-Warren	Sep-97	Feb-98	120	196	Yes		Dec-96
FY 99		Allison Transmission Div/9	OPTION	OPTION TACOM-Warren	Feb-98	Feb-99	120	198	Yes	_	Dec-96
неманкз: /1. /2. /3. /4. /5.		General Dynamics Land System, Warren, MI SS/FFP/M5 Armor production leads tank production Department of Energy Lockheed Idaho Technologies Company, Idaho Falls, Idaho Awarded to GDLS as part of the Long Lead Material Contract	7. /8. // /9. // /10.	Awarded to GDLS on a separate competitive contract AlliedSignal/Control & Accessories, Tucson. AZ Allison Transmission Div, GM Corp, Indianapolis, IN Awards are against a Navy BOA Contract therefore no RFP issued only letter with new requirements.	eparate essories GM Col vy BOA requiren	competit s, Tucsor rp, Indian Contract nents.	ive contra I. AZ lapolis, IN therefore	act I no RFP iss	pens		

								Date:		
Exhibit	Exhibit P-5a, Budget Procurement History and Planning	istory an	d Planning					B.	February 1998	8
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMRT VEHS / 1 / Tracked Combat		Weapon System Type:	Туре:		P-1 Line Item Nomenclature:	Nomenclature:				
Vahicles						ABRAMS U	ABRAMS UPGRADE PROGRAM (GA0750)	AM (GA07	20)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	QTY	Unit Cost	Specs	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
6. Final Drive									-	
FY 96	TACOM NICP			Mar-95	Apr-96	200	7	Yes		¥
FY 97			TACOM-Warren	Nov-95	Feb-97	240	9	Yes	_	Apr-95
FY 98		-	TACOM-Warren	Jan-97	Feb-98	240	9	Yes	_	Apr-95
FY 99	LOC Performance, Inc/1	OPTION	TACOM-Warren	Apr-98	Feb-99	240	Ø	Yes	_	Apr-95
7. Fire Control		•								
FY 96	Hughes/2/Various	Varions	TACOM-ACALA	Var	Apr-96	100	327	Yes		Var
FY 97	Hughes/2/Various		TACOM-ACALA	Var	Feb-97	120	329	Yes		Var
FY 98	Hughes/2/Various		TACOM-ACALA	Var	Feb-98	120	328	Yes		Var
FY 99	Hughes/2/Various	Varions	TACOM-ACALA	Var	Feb-99	120	15	Yes		Var
8. Track										
FY 96	Goodyear Tire & Rubber/3		TACOM-Warren	Feb-96	Apr-96	15600		Yes	<u> </u>	Oct-95
FY 97	Goodyear Tire & Rubber/3	_	TACOM-Warren	Mar-96	Feb-97	18720		Yes	<u> </u>	Oct-95
FY 98	Goodyear Tire & Rubber/3		TACOM-Warren	Nov-96	Feb-98	18720		Yes	<u> </u>	Oct-95
FY 99	Goodyear Tire & Rubber/3	SS/FFP	TACOM-Warren	Apr-98	Feb-99	18720		Yes	_	Dec-97
Boadwheele										
FY 96	B&C Corp/4	72	TACOM-Warren	Feb-95	Anr-96	3200		Y		111.92
FY 97	B&C Corp/4	72	TACOM-Warren	Mar-96	Feb-97	3840		Yes	- 0,	Sep-95
FY 98	B&C Corp/4	72/	TACOM-Warren	Dec-96	Feb-98	3840	•	Yes	- 0,	Sep-95
FY 99	B&C Corp/4	/2	TACOM-Warren	Apr-98	Feb-99	3840		Yes	0,	Sep-95
										,
	но, он									
/5. Requirement Contract/FFP										

Item No. 19 Page 4 of 11 182

								Date:		
	Exhibit P-5a, Budget Procurement	History a	scurement History and Pianning					F	February 1998	8
Appropriation / Budget Activity/Serial No:		Weapon System Type.	ят Туре:		P-1 Line Item Nomenclature:	Vomenclature:				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat	ombat					ABRAMS	ABRAMS UPGRADE PROGRAM (GA0750)	RAM (GA07	50)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	αтν	Unit Cost	Specs Avail	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
10. Gun Mounts/1										
FY 96	RIA	X R		Jun-95	Apr-96	20	43			¥ Z
FY 97	RIA	¥.		Mar-96	Feb-97	09	34	Yes		¥
FY 98	RIA	ΧR		Feb-97	Feb-98	09	43			¥
FY 99	RIA	X X		Apr-98	Feb-99	09	52	Yes		₹
11. Gun	;		•	;		,	ļ	;		•
FY 96	Watervliet	W		Mar-95	Apr-96	8	117			¥
FY 97	Watervilet	W		Aug-96	Feb-97	120	66			ž
FY 98	Watervliet	WH		Mar-97	Feb-98	120	101	Yes		¥
FY 99	Watervliet	W		Apr-98	Feb-99	120	129	Yes		¥
12. Driver's Night Viewer										
FY 96	CECOM NICP	REQ		Jul-95	Apr-96	10	S			¥
FY 97	CECOM NICP	REQ		96-unf	Feb-97	120	5			¥
FY 98	CECOM NICP	REQ	CECOM	Sep-97	Feb-98	120	2			ΑĀ
FY 99	TBD	TBD	CECOM	Jul-98	Feb-99	120	ഗ	Yes		
12 Book leans fome										•
TO DASIC ISSUE RELIES	A IACAMONT	a/v		May 05	Anr-96	5	α		•	ΔN
00 11	A LACON MODEL	9		May 96	Fob-07	5	1 0	3 8		
/6 \4	LACOM-ACALA	<u> </u>		May-90	760-37	2 5			_	<u> </u>
FY 98	I ACOM-ACALA	¥ :		rep-97	26-del	מאַן	0 (			<u> </u>
FY 99	TACOM-ACALA	MA.		Apr-98	Feb-99	120	<b>ω</b>			Υ Σ
•										
REMARKS: /1. RIA, Rock Island Arsenal, Rock Island, IL produces 50%	sland, IL produces 50% of gun mounts.	.s.								
	1									-

RIA, Rock Island Arsenal, Rock Island, IL produces 50% of gun mounts.
 The remainder are procured with the GDLS contract.

: :: : : : : : : : : : : : : : : : : :	Exhibit P-5a Budget Procurement History and Planning	listory an	d Planning					Date:		
Americanian (D. does Anti-it-/Conjet No.	on) constant	Weapon System	Type:		A mod box 4	- Children		Đ.	reordary 1996	
Appropriation / Budget Activity/Sental No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	-	weapon system type:	ı ıype:		P-1 Line Item Nomenclature: ABRAMS	lomenclature: ABRAMS U	nenciature: ABRAMS UPGRADE PROGRAM (GA0750)	AM (GA07!	(0)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	ate of First	αту	Unit Cost	Specs	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	_	Avail	
14. MILSTRIPS/RIK									-	
	NA	REG/WR		Various	Apr-96	100	7	Yes		Ą
	AN	REG/WR		Various	Feb-97	120	4	Yes		¥
	Y.	REQ/WR		Various	Feb-98	120	9	Υes		<b>¥</b>
FY 99	<b>Y</b> Z	REG/WR		Various	Feb-99	120	9	Υes		¥ Z
15 VIS/1									-	
13. VIS/1	0,000	INCITOO	NO S	20,00	90.40	ď	-	>		500
FY 97	Grimman/2		CECOM	May-96	Feb. 97	3 5	n cc	, do >	, O.	Sep. 01
FY 98	Grumman/2		CECOM	Apr-97	Feb-98	120	6	Yes		Sep-91
FY 99	Grumman/2		СЕСОМ	Jun-98	Feb-99	120	တ	Yes	0,	Sep-91
										•
26. Il Gen FLIR										
上 66 人出	Various	SS/FFP	CECOM	Jan-98	Feb-99	120	802	Yes	-	Sep-96
						•	•	•		
					•					
					-					
										•
REMARKS: /1. VIS, Vehicular Intercommunication System /2. Grumman Aerospace Corp, Bethpage, NY /3. 40 VIS Components were previously procured in Phase	i System age, NY sly procured in Phase I									

	Ę	00 140		ں ا		_	-1 Iten	P-1 Item Nomenclature:	enclatu A P	Ire:	abaii	Iture:	7850	W (GA	0750)					Date:			ū	aprilan	February 1998			
DON'T ISBUDG 88 100 IT	<u></u>			2	9200	Į.					Fieral Voor 06	8	3		60.10	ŀ		1		ű	Fieral Vear	981	6			ı	Ŀ	Т
	2				PRIOR .						2	S	ındar	Calendar Year 96	96	d			L	-	Sa	end	¥	Calendar Year 97			· «	_
COST ELEMENTS	uс	<u>k</u>	ш с >	Each		AS OF 1 OCT	20> 00⊢	C E	¬ ∢ Z	T 73 8	A P R	<b>∑</b> ∢ ≻	¬⊃Z	- O -	∢ ⊃ ნ	გ m ჟ   	z 0 >	0 m 0	¬ ∢ z	டயக	Σ∢α	4 G E	<b>∑ &lt; ≻</b>	7 D Z	ر ب د ب م	o m σ		
1. Basic Vehicle	1 9	95 & Pr	A	206	95	111	10 9	8	10	0	10 10	9	6	°	2	6	Н	Ц			П	H	$\forall$	H	Н	$\sqcup$		
	-	FY 96	4	100	0	100		Щ		Н	Н	Ц		٧		Ξ.	1 9	8	Ξ	11	=	Ξ	Ξ	Ξ	9	$\dashv$		
	-	FY 97	A	120	0	120	H			H	Н	Ц			_	$\dashv$	Н	٧							٤	2	호	
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	1 FY 9	7	A 1	120	120								_			Ц						-	_					
	1 FY 98	8			120			_													-	_						
	1 FY 99	6	A 1	120	120		_	_								Н						_			_			
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W		PRO	PRODUCTION RATES	ATES			MFR	L	ļ		Γ		ADM	NLEA	ADMIN LEAD TIME		Ļ	MFR	Γ	₽	TOTAL	┝	REMARKS	<b>ARKS</b>				
LL.					Г	REACHED	Number	_			7	Prik	Prior 1 Oct.		After 1 Oct	ö		After 1 Oct	ដ	After	After 1 Oct.	1	ATP is	the or	ıly facil	ity in th	LATP is the only facility in the United	2
	WIN	1	1-8-5		MAX.	÷		Ξļ	INITIAL				۰	+		္ပ	4	≠ :	T		اء	" T	tates	abapie	o d Did	gucing	States capable of producing tanks.	
1 LIMA ARMY TANK PLANT, LIMA, OH	ę	+	위	$\dagger$	52	22	١		REORDER				٥	†		,,	4	7	1		٥	Ť	ATP is	interd	puede	ant and	LATP is interdependent and does not	ţ
	+	+		+				2 8	INITIAL		I			+			+					T N	tanda	stand alone. FMS represents	MS re	presen	ş	i
	_	$\dagger$		+		Ī		2	NITIAL		I			t	١	l	Ļ		T	l	l	Ť	oprodi	oction v	Vit Eg	ypt for	coproduction with Egypt for kits and	_
		╁						E	REORDER	<b> </b>		$\prod$		H			Н					<u>²</u> ∏	28	anks to	Z Y	R(Z) 111	_	
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	L	t		$\vdash$	l			2	REORDER	<b>_</b>				t			L					Γ						
		ł						ł														l						

Item No. 19 Page 11 of 11 189

		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifice	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	I No:					P-1 Item Nomenclature:	.e.					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	SMBT VEHS / 1 / Tra	cked Combat Vehicle	SZ.				ABRAMS UPGRAI	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	PROC) (GA0750)		
Program Elements for Code B Items:	::			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Less PY Adv Proc												
Plus CY Adv Proc		181.3	297.2	258.2	253.5	262.9	242.7	153.6	144.3			1793.8
Net Proc (P-1)	0.0	181.3	297.2	258.2	253.5	262.9	242.7	153.6	144.3		0.0	1793.8
Initial Spares												
Total Proc Cost	0.0	181.3	297.2	258.2	253.5	262.9	242.7	153.6	144.3	0.0	0.0	1793.8
Fiyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Advance procurement for long lead materials to support procurement for the Abrams Upgrade Program.

JUSTIFICATION: Without advance procurement funds, procurement of components, assemblies and raw materials to support procurement, long lead time would not be possible and would cause a break in production.

Advance Procurement Requirements Analysis-I	Part of the Part of	•												
	Irement	s Analy	sis-Fund	Funding (P-10A)	~		96-Inc			Oct-96			February 1998	
Appropriation / Budget Activity/Serial No:							P-1 Line Item No	P-1 Line Item Nomenclature / Weapon System:	apon System:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 /	WPNS & TRK	O CMBT VE		Tracked Combat Vehicles	s				ABRAMS UP	GRADE PROGF	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	C) (GA0750)		
								(\$ in Millions)	llions)					
		When												
	PLT (mos)	Rqd (mos)	Pr Yrs	1995	1996	1997	1998	1999	2000	2001	2002	2003	Comp	Total
End Item Quantity:				100	120	120	120	120	105	06	88		•	i
1. Basic Vehicle		9		77.1	193.0	142.8	100.2	116.9	129.5	57.3				.768
2. Armor	19		9	20.0	7.9			10.2	10.6	10.8	2.2			81.7
3. H/TEU	13		G	5.9	7.2	6.7								19.
4. Engine (DECU)	8		G	2.1	2.5			3.1	2.8		2.5			2.7
5. Transmission	19		9	22.3	22.4		23.6	24.0	21.4	18.7				174.
6. Final Drives	16		9	1.4	1.5			4.	1.3					<del>6</del>
7. Fire Control	16		"	32.5	39.3			1.8	1.6					118.
	19		Ŷ	3.3	5.7		5.7	5.8	5.1		4.5			40.
9. Roadwheels	16		6	6.0	1.4			4.1	1.3					9
10. Gun Mounts	16		6	2.1	2.1			2.6	2.4					19.
	16		9	11.3	11.4		_	12.4	11.1					9
<ol><li>Driver's Night Viewer</li></ol>	13		9	0.5	9.0			9.0	9.0					4
13. Basic Issue Items	16		9	0.7	0.8		6.0	0.8	0.7					ທີ
14. MILSTRIPS/RIK	16		9	9.0	0.5			0.7	9.0					4.
15. VIS	16		9	9.0	1.0	1.0	1.1	-	1.0					7.
26. II Gen FLIR	8		80			9.0		80.1	52.7	41.6	17.5			285.3
			· · · · · · · · · · · · · · · · · · ·											
Total Advance Procurement				181.3	297.2	258.2	253.5	262.9	242.7	153.6	144.3			1793.8

Description:

\* PLT excludes First Article Test (FAT) or other special test requirements for new producers or other factors.

ALT is based on current long term contracts. ALT increase with new starts/new contractors/new contracts.

PLT includes the 6 months requirement for components prior to tank delivery.

Advance Procurement Requirements Analy	rements	Analysis-B	/sis-Budget Justification (P-10B)	fication (P-1	(B0)			Date: February 1998	y 1998
Appropriation / Budget Activity/Serial No:					P-1 Line Item Nomenclature / Weapon System:	Weapon System:			
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1	TRKD CMB	T VEHS / 1 / Tracked	/ Tracked Combat Vehicles			ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	E PROGRAM (AD)	V PROC) (GA0750)	
						(\$ in Millions)			
		Quantity			1998			1999	
	PLT	Per	Onlt	.40	Contract	Total	į	Contract	Total
End Item	(80111)	Year	1800	ĝ	Diecasi Date	sephen sec	<b>3</b>	Forecast Date	Cost nednest
1. Basic Vehicle	18	-	0.8		120 Various	100.2	120	120 Various	116.9
2. Armor	19	-	0.1	121	Jan 98		121	Jan 99	
3. H/TEU		Ť	Ġ	Ç	9		7		
5. Transmission	19	- 🕇	0.0			23.6	120	ee cer	3.1
6. Final Drives	16	8	0.0				240		
7. Fire Control	16	<del>-</del>	0.0		120 Various		120	Various	
8. Track	19	_		18720	Apr 98	5.7	18720	Nov 98	
9. Roadwheels	16	32		3840		4.1	3840		1.4
10. Gun Mounts	16	=	0.1				09	Apr 99	2.6
	16	-	0.1			_	120		•
	13		0.0			9.0	120	66 Inf	9.0
	16	-	0.0		Apr 98		120	Apr 99	
	16	=	0.0		Various		120	Various	
15. VIS	16		0:0	•			120		
26. II Gen FLIR	ଷ	<b>-</b>	0.7	120	Jan 98	84.3	120	Dec 98	80.1
Total Advance Procurement						253.5			262.9

Description:
\* PLT excludes First Article Test (FAT) or other special test requirements for new producers or other factors.
ALT is based on current long term contracts. ALT increase with new starts/new contractors/new contracts.
PLT includes the 6 months requirement for components prior to tank delivery.

Advance Procurement Requirements Analysis-Present Value Analysis (P-10C)	ements Ans	ivsis-Pres	tent Value	Analysis	(P-10C)					Date:	February 1998	
Appropriation / Budget Activity/Serial No:					-1 Line Item Nom	P-1 Line item Nomenclature / Weapon System:	on System:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	RKD CMBT VEHS,	1 / Tracked Com	bat Vehicles				ABRAMS UF	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	AM (ADV PROC)	(GA0750)		
						(\$ in Millions)	llions)	-				Ī
	Pr Yrs	1995	1996	1997	1998	1999	2000	2001	2002	2003	Сощр	Total
Proposal w/o AP Then Year Cost Constant Year Cost Present Value	658 692 762	132 136	440 447 466	501 502 509	587 578 571	666 651 625	668 642 599	630 595 540	596 552 488	675 613 527	344 303 251	5897 5711 5482
AP Proposal Then Year Cost Constant Year Cost Present Value	692 753 871	280 289 310	556 564 588	462 463 469	582 574 566	676 660 634	647 622 581	541 511 464	586 543 480	531 482 414	344 303 251	5897 5764 5626
AP Savings (Difference) Then Year Cost Constant Year Cost Present Value	34 109	148 153 164	116 118 123	96. 96. 96.	<b>ሱ ሎ </b> ቊ	<b>000</b>	-20 -20 -18	-89 -84 -76	တ္တု ထု	-144 -131 -113		53
			1 W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
Remarks:												

Advance Procurement Requirements Analysis-Execution (P-10D)	uiremer	nts Anal	ysis-Exec	oution (P.	100)								Date: Fe	February 1998	
Appropriation / Budget Activity/Serial No:						4	-1 Line item	Nomenclature /	P-1 Line item Nomenclature / Weapon System	2					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	WPNS & TE	SKD CMBT VE	:HS / 1 / Tracke	d Combat Vehici	88				ABRAN	IS UPGRADE P	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	PROC) (GA	0520)		
								(\$ in Millions)	llions)						
				1996					1997			31	1998	16	1999
			Contract	Actual	Total	Actual		Contract	Actual	Total	Actual		Contract		Contract
	PLT (mos)	à	Forecast	Contract	Cost	Contract	ě	Forecast	Contract	Cost	Contract	Š	Forecast	Š	Forecast
End Item	*		Care	Caga	reanhau	5	3	Cale	Cale	Tegnbou Tegnbou	1800	ĵ	Calc	<u> </u>	Date
1. Basic Vehicle	18		120 Various	Various	193.0	193	120	20 Various	Varions	142.8	142.7	120	120 Various	120	120 Various
2. Armor	19	122	Mar-96	Mar-96	7.9	80	121	Mar-97	Feb-97	9.8	9.8	120	Jan-98	120	Jan-99
3. H/TEU		240		May-96	7.2	^	240	Mar-97	Mar-97	6.7	6.7				
4. Engine (DECU)	20			Mar-96	2.5	၉	120	Mar-97	Apr-97	3.1	3.1	120	Jan-98	120	Dec-98
5. Transmission	19			Dec-95 Various	22.4	22	120	Dec-96	Sep-97	23.4	23.4	120	Feb-98	120	Jan-98
6. Final Drives	16	240	Mar-96	Nov-95	1.5	<del>-</del>	240	Mar-97	Jan-97	1.4	1.4	240	Apr-98	240	Apr-99
7. Fire Control	16		120 Various	Varions	39.3	39	120	120 Various	Varions	38.8	38.8	120	120 Various	120	Various
8. Track	19	18720		Mar-96		9	18720	Mar-97	Nov-96	5.7	5.7	18720	Apr-98	18720	Nov-98
9. Roadwheels	16	3840		Mar-96		-	3840	Mar-97	Dec-96	4.1	4.1	3840	Apr-98	3840	Apr-99
10. Gun Mounts	16	9		Mar-96	2.1	N	9	Mar-97	Feb-97	2.6	2.6	9	Apr-98	8	Apr-99
11. Gun	16	120	Apr-96	Apr-96	11.4	Ξ	120	Mar-97	Mar-97	10.6	10.6	120	Apr-98	120	Apr-99
12. Driver's Night Viewer	13	120		96-unf	9.0	_	120	Jul-97	Sep-97	0.5	9.0	120	3ul-98	120	GG-Inf
13. Basic Issue Items	16	120	Mar-96	May-96	0.8	_	120	May-97	Feb-97	0.7	0.8	120	Apr-98	120	Apr-99
14. MILSTRIPS/RIK	16		120 Various	Varions	0.5	0	120	120 Various	Various	0.7	0.5	120	120 Various	120	120 Various
15. VIS	16	120	Apr-96	May-96	1.0	<del>-</del>	120	Apr-97	Apr-97	1.0	1.0	120	Jun-98	120	Apr-99
26. II Gen FLIR	8	_					•	Feb-97	Apr-97	0.6	9.0	120	Jan-98	120	Dec-98
Total Advance Procurement					297.2	297.2				258.2	258.2				

Description:

\* PLT excludes First Article Test (FAT) or other special test requirements for new producers or other factors.

ALT is based on current long term contracts. ALT increase with new starts/new contractors/new contracts.

Advance Procurem	ent Regul	rements	Analysis	Obligatio	ns/Expen	ditures (	(P-10E)					<u></u>	Date:	February 1998	
Appropriation / Budget Activity/Serial No:	ırlai No:			C			Г	P-1 Line Item Nomenclature / Weapon System:	menclature / We	sapon System:					
<b>1</b>	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	F WPNS & TRK	(D CMBT VEHS)	11/Tracked Co	mbat Vehicles					ABRAMS UP	GRADE PROGR	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	(GA0750)		
						\$)	(\$ in Millions)								
							FY 96	96						Total	Ending
	Total		1995						1996					Obl/Exp	Balance
	Program	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	(Cum)	(Cnm)
FY 96 Obl Plan	297.2		7.	23.5	28.8	4.6	37.0	15.3	12.0	1.3	168.4	5.2	6 E 4	297.2	0.
Actual Exp Plan	297.2		5	73.5 73.5 73.5	78.8 78.8	o. 0	33.6		ю И 4	ю. «о	o.	b	4. r.	207.3	
Actual	297.2		-					. 4.	₹.	òα		4.5	7.0	13.1	284.1
FY 97															
Obl Plan	258.2														258.2
Actual	258.2														700.
Exp Plan	258.2														258.2
Actual	258.2														258.
FY 98															
Obl Plan	253.5														253.5
FY 99													****		. 0
Obl Plan	262.9			***											707
									******						
Narrative:						8									
						٠									

	9.5 9.4 9.4 113.0 172.4 19.0 153.3	42.4 39.0 258.2 .0 69.0 61.3 256.5 1.7	0 2.2 18.2 240.0 1 3.1 14.5 243.7	253.5	262.9	
P-1 Line Item Nomenclature / Weapon System:  ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)  IS)  Y 97  Apr May Jun Jul Aug Sep	9.4 9.4	39.0 61.3	3.1			
P-1 Line Item Nomenclature / Weapon System:  ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)  IS)  Y 97  Apr May Jun Jul Aug Sep	4 4. 4. 6.					
P-1 Line Item Nomenclature / Wea (s) Y 97 1997 1997 Apr May		42.4	0 <del>-</del>			
P-1 Line Item Nomenclature / Wea (s) Y 97 1997 1997 Apr May	9.5		2.0			
P-1 Line Item Nomenclature / Wea (s) Y 97 1997 1997 Apr May	<del></del>	39.2	2.0 5.4			
P-1 Line Item Nomenclature / Wea (s) Y 97 1997 1997 Apr May	7.8 9.5 13.3	6.0	2.8			1
ଡ଼ >	5 9.4 12.9	3.5 2.6	2.0 1.2			1
ଡ଼ >	-1.9 9.4 24.5	33.4	5.0			
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles  (\$ in M Starting 1996 Balance Oct Nov Dec Jan Feb N	9.9 5.5	25.1 20.4	2.0		<del></del>	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles  Starting 1996 Jan F  Balance Oct Nov Dec Jan F	11.9 9.4 15.1	46.1	0, ci			-
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat 1 Starting 1996 Je July 1 Balance Oct Nov Dec July 1 Jul	11.2 9.6 3.0	7.1	2.0		W	-
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tr. Starting 1996 Balance Oct Nov Do	1.0 9.4 2.9	10.7	<del>.</del>			-
PROCUREMENT OF WPNS & TRKD CMB Starting 199 Balance Oct NC	4.8 4.8	5.7				-
PROCUREMENT OF WPNE Starting Balance Oc	6.0. 4.0.0.					-
PROCUREM Starti Balan		258.2 258.2	258.2 258.2	253.5	262.9	
	.0 29.3 85.4 84.1	ฉฉั	ผล	Ø	C)	
Appropriation / Budget Activity/Sertal No: PROCURI Sta Bat	.0 29.3 285.4 284.1	·				

Advance Procurement Requirements Analysis-Obligations/Expenditures (P-10E)	ment Requi	rements,	Analysis-	Obligatio	ins/Expe	nditures						-	Date:	February 1998	
Appropriation / Budget Activity/Serial No:	Serial No:						Г	P-1 Line Item No	P-1 Line Item Nomenciature / Weapon System:	eapon System:					
	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	JF WPNS & TRK	CD CMBT VEHS	/ 1 / Tracked Co	mbat Vehicles					ABRAMS UP	GRADE PROGF	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	C) (GA0750)		
							(\$ in Millions)								
							FY 98	98						Total	Ending
	Starting		1997						1998				į	Obl/Exp	Balance
	Balance	) OCt	λον	ž	Jan	Ω <u>Θ</u> Σ	Mar	Apr	May	uno	3	Aug	dec	(Cum)	(mno)
FY 96 Obl Plan Actual	6.			0.										o.	0. 0.
Exp Plan Actual	172.4 159.4	8.6 11.7	8.6 29.2	8.6 13.1	9.6	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	104.0 54.0	68.4 105.4
FY 97 Obl Plan Actual	0.	o.	4.1										2	1.5	Ó VÌ
Exp Plan Actual	240.0 246.8	8.0 3.0	8.0	8.0 11.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	96.0	144.0 224.5
FY 98 Obl Plan	253.5				174.1	23.6		29.0	8.0	2.0	<b>=</b>	13.8	1.9	253.5	0.
FY 99 Obl Plan	262.9														262.9
Narrative:															

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Advance Procurement Bequirements Analysis-Obligations/Expenditures (P-10E)	ment Reauli	ements	Analysis-	Obligatio	ns/Exper	nditures	(P-10E)						Date:	February 1998	
Appropriation / Budget Activity/Serial No:	Serial No:						Г	P-1 Line Item No	P-1 Line Item Nomenclature / Weapon System:	3apon System:					
	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	F WPNS & TRK	D CMBT VEHS.	/1/Tracked Co.	mbat Vehicles					ABRAMS UP	GRADE PROGF	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	C) (GA0750)		
						\$	(\$ in Millions)								
							FΥ	66						Total	Ending
	Starting		1998						1999					Obt/Exp	Balance
	Balance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	(Cnm)	(Cum)
FY 96 Obl Plan Actual	0:														0.
Exp Plan Actual	68.4 159.4	2.8	2.9	53	2.8	2.8	2.8	2.9	2.8	2.9	2.9	2.9	2.9	34.2	34.2 159.4
FY 97 Obl Plan Actual	0. 63.0														o. 63.0
Exp Plan Actual	144.0 246.8	7.3	7.4	7.3	7.3	7.3	7.3	7.3	7.4	7.3	7.4	7.4	7.4	88.1	55.9 246.8
FY 98 Obl Plan	o.													ļu <del>,</del>	o,
FY 99 Obl Plan	262.9		5.8	77.6	140.2			19.6	1.4	3.7	9.	11.8	2.2	262.9	0.
Narrative:															

Starting	Procurement of works a two count verse in transact connectiveness and services and	Advance Procurement Requirements Analysis-Obligations/Experioration (P-10E) Appropriation / Budget Activity/Serial No:	Serial No:	rements	Analysis	-Colligati	olis/cxbe	Sainne	7301-1	P-1 Line Item N	P-1 Line Item Nomenclature / Weapon System:	eapon System:				rebidaly 1330	
Starting   Starting	Starting   First   Starting   First		PROCUREMENT O	F WPNS & TRI	CD CMBT VEHS	1/1/Tracked C	ombat Vehicles					ABRAMS UP(	RADE PROGR	IAM (ADV PROC	(GA0750)		
Starting	FY 96								in Millions)								
Starting	Sharking   Sharking								FΥ	00						Total	Ending
FY 96 0	FY 995 D. Dec Jan Feb Mar Apri May Jun Jun Aug Sap (Cum)		Starting		1999						2000					Obl/Exp	Balance
FY 96 0  FY 97 0  FY 98 0  FY 98 0  FY 99 0  FY 90	FY 96 0.0 1.4 1.4 1.4 1.4 1.4 1.5 1.5 1.5 1.5 1.72 1.93 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.		Balance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Land	3	Aug	Sep	(Cum)	(Cum)
FY 97 (1.5) 1.4 1.4 1.4 1.4 1.5 1.5 1.5 1.5 1.7.2 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	FY 97 1.4 1.4 1.4 1.4 1.4 1.5 1.5 1.5 1.7.2 1.9.7 1.9.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1	FY 96 Obi Plan Actual	o.														0.
FY 970  FY 98  FY 98  FY 98  FY 98  FY 98  FY 98  FY 98  FY 98  FY 98  FY 98  FY 98  FY 98  FY 98  FY 98  FY 98  FY 98  FY 98	FY 970 63.0 63.0 55.9 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.5 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	Exp Plan Actual	34.2 159.4									1.5	7.5	5.7		17.2	159.4
FY 96 .0 4 2.4 2.4 2.4 2.4 2.3 2.3 2.3 2.3 2.3 2.8 2.8 2.8 2.9 2.8 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9	FY 98  O		0. 63.0														0. 63.0
FY 980	FY 98 .0	xp Plan ctual	55.9 246.8									2.3	2.3	2.3	2.3	28.2	27.7 246.8
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Narrative:	Narrative:																
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Advance Procurement Requirements Analysis-O	ment Requi	rements	Analysis	-Obligatic	bligations/Expenditures (P-10E)	nditures	(P-10E)						Date:	February 1998	
Appropriation / Budget Activity/	/Serial No:						Г	P-1 Line Item No	P-1 Line Item Nomenclature / Weapon System:	eapon System:					
	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1	JF WPNS & TRI	KD CMBT VEHS	/ 1 / Tracked Co	/ Tracked Combat Vehicles					ABRAMS UP	GRADE PROGE	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	C) (GA0750)		
						\$)	in Millions)								
							FY 01	01						Total	Ending
	Starting		2000						2001					Obl/Exp	Balance
	Balance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	(Cnm)	(Cnm)
FY 96 Obl Plan Actual	0.														0.
Exp Plan Actual	17.0 159.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	1.7	17.0	.0 159.4
FY 97 Obl Plan Actual	0. 0.63														o. 63.0
Exp Plan Actual	27.7 246.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	15.6	12.1
FY 98 Obl Plan	0.						-								o.
FY 99 Obi Plan															
Narrative:															

Pariograt Activity-Serial No.   Pariograph	Advance Procuren	nent Requi	rements	<b>Analysis</b> -	Obligatic	ons/Expe	nditures (							9	February 1998	
Starting   Starting	Appropriation / Budget Activity/S	seriai No:						Г	P-1 Line Item N	omenclature / W	eapon System:					
Starting Starting 2001	ď	PROCUREMENT C	F WPNS & TR	<b>KD CMBT VEHS</b>	/1/Tracked C	ombat Vehicles					ABRAMS UP	3RADE PROG	RAM (ADV PRO	C) (GA0750)		
Fry 96							\$)	in Millions)								
Starting   Starting								F	02						Total	Ending
FY 96 O		Starting		2001						2002					Obl/Exp	Balance
FY 97 0. 159.4 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1		Balance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	(Crum)	(Cum)
FY 970 63.0 FY 980 FY 990	FY 96 Obi Plan Actual	0:														0:
FY 970 63.0 63.0 12.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.2 1.0 12.10 FY 980	Exp Plan Actual	159.4										,			_	.0
FY 98 .00	FY 97 Obl Plan Actual	0. 63.0					•									0. 63.0
FY 98	Exp Plan Actual	12.1 246.8			1:	<del>-</del>	<del>:</del>		1.20	7:	<u> </u>	1.2	1.0		12.1	.0 246.8
FY 99	FY 98 Obl Plan	0.														O,
	FY 99 Obl Plan															

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Iter	em Justifice	m Justification Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	lal No:					P-1 Item Nomenclature:	ıre:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tra	icked Combat Vehicle	98				ITEMS LESS T	ITEMS LESS THAN \$2.0M (TCV-WTCV) (GL3100)	CV) (GL3100)		
Program Elements for Code B Items:	rs:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	17.5	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.0	18.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	17.5	0:0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0:0	18.3
Initial Spares												
Total Proc Cost	17.5	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.0	18.3
Fiyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION: Provides for procurement/assembly of full t	ovides for prov	ourement/acc	sembly of full	I tracked veh	racked vehicle organizational maintenance tool/shon sets. This equipment has multi-annications and is	ional mainter	nance tool/et	The cote Th	ie agrijamant	hae militian	ne ancitediac	م اد

DESCHIPTION: Provides for procurement/assembly of full tracked vehicle organizational maintenance tool/shop sets. This equipment has multi-applications and is essential for effective maintenance on all tracked vehicles.

JUSTIFICATION: Required to provide organizational maintenance personnel with equipment essential to maintain full tracked vehicles in an acceptable state of readiness. Funding of this program will establish and maintain the operational capability of the Bradley Fighting Vehicle, M1 Tank, etc.

Exhibit P-5, Weapon	Apk	Appropriation/ Budget Activity/Serial No: PROCUBEMENT OF WPNS & TRKD O	get Activity	Appropriation/ Budget Activity/Serial No:		P-1 Line Itel ITEMS L	P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (TCV-WTCV)	(TCV-WTCV)	>	Weapon System Type:		Date: Febr	February 1998
	_	VEHS / 1 / Tracked Combat Vehicles	acked Com	bat Vehicles			(GL3100)						
l₽	QI		FY 96			FY 97			FY 98			FY 99	
ᡖ	CD	TotalCost	Qty	UnitCost	TotalCost	Ω by	UnitCost	TotalCost	ģ	UnitCost	TotalCost	ð	UnitCost
	${\sf H}$	000\$	Each	000\$	000\$	Each	000\$	000\$	Each	\$000	000\$	Each	\$000
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		Exhibit P-4	0, Budget It	Exhibit P-40, Budget Item Justification Sheet	ation Sheet		-	Oale:		February 1998		
Appropriation / Budget Activity/Serial No:	il No:					P-1 Item Nomenclature:	9:					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS/1/Tra	cked Combat Vehicle	98				PRODUCTION BAS	PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)	WTCV) (GA0050)		
Program Elements for Code B Ilems:				Соде:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	1430.0	14.4	5.3	9.3	8.8	8.9	9.1	9.5	10.2	10.2	0.0	1515.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1430.0	14.4	5.3	9.3	8.8	8.9	9.1	9.5	10.2	10.2	0.0	1515.6
Initial Spares												
Total Proc Cost	1430.0	14.4	5.3	9.3	8.8	8.9	9.1	9.2	10.2	10.2	0.0	1515.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program provides for Provision of Industrial Facilities (PIF). Funds are used to establish, modernize, expand or replace facilities owned by the Army. It provides Production Support Equipment Replacement (PSR) and Modernization (MOD) to Government owned equipment, real property used in production and production testing of Weapons and Tracked Combat Vehicles. This program also provides funding for the Layaway of Industrial Facilities (LIF) for preservation of equipment and Environmental (Env) restoration for the portions of plants which are no longer required for active production.

JUSTIFICATION: The FY99 request supports PSR to Government owned equipment at Lima Army Tank Plant. Included are a waste water discharge monitoring and separation system, repaving of roadways, roof/downspouts, and design/installation of a point source air ventilation system. Also, funding will be used to replace and rehabilitate unscheduled/unplanned emergency repairs of Government owned production machinery, equipment and facility items currently in use at the contractor plant in Muskegon, MI. and Scranton, Pa.

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.511	.350		8.861
8.401	0.357		8.758
8.926	0.360		9.286
3.443	0.432	1.448	5.323
ᆈ	H	EN	TOTAL
	3.443 8.926 8.401		8.401 0.357

Exhibit P-5, Weapon	٦	Appropriation/ Budget Activity/Serlal No:	get Activity/	Serial No:		2-1 Line Item	P-1 Line Item Nomenclature:		>	Weapon System Type:		Date:	
WTCV Cost Analysis		PHOCUREMENT OF WPNS & THKD CMBT VEHS / 1 / Tracked Combat Vehicles	OF WPNS acked Comb	& IHKD CMBI at Vehicles		PHODUC	PHODUCTION BASE SUPPORT (1CV-WTCV) (GA0050)	PORI (1CV-				Len	redidary 1996
WTCV	₽		FY 96			FY 97			FY 98			FY 99	
ents	СО	TotalCost	Oty	UnitCost	TotalCost	Qfy	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	П	\$000	Each	000\$	000\$	Each	000\$	000\$	Each	000\$	000\$	Each	\$000
49X3002 Omnibus Design Provided for design of construction/equip projects in support of Tank production.	***	\$0.394	••••										
49X4281 LIF, Layaway/Redistribution Various Government & Contractor Facilities Provides for plant clearance and restoration of those areas no longer required for active production. Packing, crating, handling & transportation GFE retained for future produc		\$0.432			\$0.360			\$0.357			\$0.350		
49X6037 PSR, LIMA Army Tank Plant (LATP) Provides non-routine maintenance of real property facilities, I.P.E. purchase & rehab. of production equipment		\$2,299			\$4.427			\$5.626			\$4.000		
49X6040 PSR, Scranton/Muskegon Facilities Provides replacement/rehab of Government owned equipment at contractor plants.		\$0.750			\$4.499			\$2.775			\$3.711		
49X6042 PSR, LIMA Army Tank Plant (LATP) Provides elimination of buildings/restoring sites to ensure comp w/Pollution Prevention Executive Order 12856.			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			***					\$0.304		
49X6047 PSR, LIMA Army Tank Plant (LATP) Provides compliance with Ohio Dept. of Trans. resurfacing cycle-asphaltic/concrete											\$0.218		
49X6048 PSR, LIMA Army Tank Plant (LATP) Provides for roof/downspout replacement											\$0.278		
19X8173 ENV, Stratford Army Engine Plant Provided for correction of OSHA/EPA deficien- cies/minimum facility project in support of the aircraft and tank production.		\$1.448											
TOTAL		\$5.323			\$9.286			\$8.758			\$8.861		

								Date:				
		Exhibit P-4	0, Budget It	Exhibit P-40, Budget Item Justification Sheet	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	ıre:					
PROCUREMENT OF	PROCUREMENT OF WPNS & TRKD CMBT VEHS/2/Weapons and Other Combat Vehicles	VEHS/2/Weapons	and Other Combat	Vehicles				ARMOR MACHINE	ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	SERIES (G13000)		
Program Elements for Code B Items:	iş:			Code:	Other Related Program Elements:	am Elements:						
				٧								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty				2034	1500	673	2154	1746				8107
Gross Cost	0.0	0.0	0.0	20.3	14.7	6.5	18.4	17.8	0.0	0.0	0.0	7.77
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		0.0	0.0	20.3	14.7	6.5	18.4	17.8	0.0	0.0	0.0	7.77
Initial Spares												
Total Proc Cost	0.0	0:0	0.0	20.3	14.7	6.5	18.4	17.8	0.0	0.0	0.0	7.77
Fiyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The M240B Machine Gun is a ground version of the M240 Machine Gun, the 7.62mm Medium Machine Gun class weapon designed as a coaxial/pintle-mounted weapon for tanks and light armored vehicles. The M240B is an air cooled, link-belt fed, gas operated weapon. The weapon features fixed head space, which permits rapid changing of the barrels. The principle difference between the M240 and the M240B is the addition of a flash suppressor, front sight, carrying handle for the barrel, buttstock, pistol grip, bipod, heat shield and rear sight assembly. The M240B Machine Gun may also be tripod-mounted and used in conjuction with a traversing and elevating mechanism and a flex mount pintle.

infantry, mechanized infantry, and combat engineer units. The US Army has identified a need to upgrade its current inventory of 7.62mm Medium Machine Guns in order JUSTIFICATION: The M240B Medium Machine Gun is an infantry version of the M240 Armored Machine Gun intended to replace the M60 Series Machine Gun in light to provide the dismounted infantryman a more reliable, accurate, and lethal medium machine gun to suppress and destroy enemy personnel, lightly armored vehicles, and fortified positions.

Exhibit P-5, Weapon	Α	Appropriation/ Budget Activity/Serial No:	get Activity/	Serial No:		P-1 Line Item	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
WTCV Cost Analysis		PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat	OF WPNS poor O	& TRKD CMBT ther Combat		ARMOR N	ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	7.62MM M240				Febr	February 1998
ol MTCV	_		FY 96			FY 97			FY 98			FY 99	
ents		TotalCost	Qţ	UnitCost	TotalCost	Oty	UnitCost	TotalCost	Oth	UnitCost	TotalCost	Qty	UnitCost
	H	000\$	Each	\$000	000\$	Each	000\$	000\$	Each	000\$	000\$	Each	\$000
Hardware (Incls Flex Mount & Blank     Firing Device)	4				17102	2034	8	13594	1500	<b>o</b>	5623	673	8
2. Engineering Support - In House Support					1553			450			262		
3. Quality Assurance (ARDEC)	<u> </u>				117			63			44		
4. Integrated Logistics Support					79			79			61		
5. Engineering Studies					589					-			
6. Engineering Change Proposals	-				428			342			140		
7. Testing (TECOM)											06		
8. Fielding		·			423			164			279		
TOTAL	· · · · · · · · · · · · · · · · · · ·				20291			14692			6496		

									Date:		
	Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	listory an	nd Planning					Ŧ	February 1998	. 8
Appropriation / Bu PROCUREMENT	Appropriation / Budget Activity/Serial No: PROCUREMENT OF WANKS & TREAD CMBT VEHS / 2 / Weapons and		Weapon System Type:	n Type:		P-1 Line Item Nomenclature: ARMOR MACHIN	Nomenclature: 40R MACHINE	em Nomenclature: ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	240 SERIE	S (G13000)	
WBS Cost Elements:	Offiner Combat Venicles its:	Contractor and Location	Contract	Location of PCO	Award Date Date of First	Date of First	ΑΙΔ	Unit Cost	Specs	Date F Revsn	RFP Issue Date
Fiscal Years			and Type			Delivery	Each	\$000	Now?	Avail	
Hardware (Inc	Hardware (Incls Flex Mount & Blank Firing Device)										
FY 97		FN Manufacturing, Inc., Columbia, SC	SS/FFP / M-3(1)	ACALA	Sep-97	Mar-98	2034	8	Yes	§	
FY 98		FN Manufacturing, Inc., Columbia, SC	SS/FFP	ACALA	Apr-98	Oct-99	673	6	Yes	S	
		FN Manufacturing, Inc., Columbia, SC		ACALA	Apr-98	Feb-00	827	8	Yes	ş	
FY 99		FN Manufacturing, Inc., Columbia, SC	SS/FFP M-3(3)	ACALA	Jan-99	Jul-00	673	<b>60</b>	Yes	§ Ž	<u></u>
										<u>.</u>	
REMARKS:	The M240 contract was established as a 3-year part of the 3rd years of the multiyear contract.		ntract (FY	multiyear contract (FY97,99,00). FY98 Congressional funding will be used to exercise the 2nd and	ressional	funding	will be us	ed to exerc	sise the	2nd a	pu

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Item No. 25 Page 6 of 6 211

		Exhibit P-40, Budget I	_	tem Justific	lem Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	78:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat	WPNS & TRKD CMB1	TVEHS/2/Weapons		Vehicles				MACHINE	MACHINE GUN, 5.56MM (SAW) (G12900)	(G12900)		
Program Elements for Code B Items:	.s.			Code:	Other Related Program Elements:	ram Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	48002	8705	9430	3802	406	1525						71870
Gross Cost	117.2	21.1	27.5	12.1	5.5	4.5	0.0	0.0	0.0	0.0	0:0	187.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	117.2	21.1	27.5	12.1	5.5	4.5	0.0	0.0	0.0	0.0	0.0	187.9
Initial Spares												
Total Proc Cost	117.2	21.1	27.5	12.1	5.5	4.5	0'0	0.0	0.0	0.0	0.0	187.9
Flyaway U/C												
Wpn Sys Proc U/C			ļ									
						***						

DESCRIPTION: The Squad Automatic Weapon (SAW) is a lightweight (22 pounds with 200 rounds of ammunition), 5.56mm, one-man operated weapon capable of delivering a sustained volume of automatic, accurate, and lethal fire at ranges of up to 800 meters. The Army configuration was changed Oct 89 to include a spare barrel, additional heat shield and barrel bag. JUSTIFICATION: The sustained fire capability and increased range are urgently needed throughout infantry rifle squads in order to enhance their survivability. This lightweight, highly mobile machine gun will be used by infantry, light infantry, airborne infantry, mechanized infantry and elements of the air cavalry units, as well as non-infantry units. This procurement profile will equip selected elements of the above mentioned units on a priority basis.

27485

TOTAL

115

65

6. Engineering Change Proposal (ECP's)

Quality Assurance (ARDEC)

5. Testing (TECOM)

3. Engineering Support - In House Support

1661

58

9. TDP Maintenance

8. Fielding

11. Refurbishment 12. Engr Study

10. Storage

626

134

24817

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l. Hardware

2. GFM

TotalCost

8

WTCV Cost Elements

Exhibit P-5, Weapon WTCV Cost Analysis

· February 1998

Veapon System Type:

MACHINE GUN, 5.56MM (SAW) (G12900)

								Date:		
Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	listory an	d Planning					F	February 1998	8
Appropriation / Budget Activity/Serial No: PROCUPEMENT OF WINS & TRED CMBT VEHS / 2 / Weapons and		Weapon System Type:	ı Type:		P-1 Line Item Nomenclature: MACHINE	domenclature: MACHINE	enclature: MACHINE GUN, 5.56MM (SAW) (G12900)	W) (G1294	Q	
WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date Date of First	Date of First	αтν	Unit Cost	Specs	ate	RFP Issue
Fiscal Years		and Type			Delivery	Each	\$000	_	Avail	Date
1. Hardware FY 96	FN Mfg. Co., Inc., Columbia SC		ACALA	Aug-96	Jan-97	9430	ဗ	Yes	Š	
FY 97	FN Mfg. Co., Inc., Columbia SC	SS/FFP / M-3(2)	ACALA	Dec-96	Sep-98	3802	ю	Yes	2	
FY 98	FN Mfg. Co., Inc., Columbia SC	SS/FFP / M-3(3)	ACALA	Dec-98	96-unc	406	Ю	Yes	2	
FY 99	FN Mfg. Co., Inc., Columbia SC	SS/FFP ACALA	ACALA	Jan-99	66-Inc	1525	ю	Yes	ş	
REMARKS:										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE	UCTIO	N SC	HEDUI	Ш			Ī	P-1 Item Nomenciature: MAC	ошец	ciature MAC	X K	GUN,	iture: MACHINE GUN, 5.56MM (SAW) (G12900)	A (SAV	V) (G1	2900)					Date.	 65			Febru	February 1998	88		*
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								Date:				
		Exhibit P-4	0, Budget li	Exhibit P-40, Budget Item Justification Sheet	ation Sheet					February 1998		
Appropriation / Budget Activity/Sertal No:	at No:					P-1 Item Nomenclature:	re:					
PROCUREMENT OF	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	TVEHS/2/Weapons	and Other Combat	Vehicles				GRENADE LAUNC	GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)	MK19-3 (G13400)		
Program Elements for Code B Items:	.S:			Code:	Other Related Program Elements:	am Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	9996	2100	1637	2150	400	697	1026	649	727	1255		20307
Gross Cost	147.6	34.0	32.8	33.0	7.8	12.2	18.5	13.8	15.5	25.4	0.0	340.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	147.6	34.0	32.8	33.0	7.8	12.2	18.5	13.8	15.5	25.4	0.0	340.6
Initial Spares												
Total Proc Cost	147.6	34.0	32.8	33.0	7.8	12.2	18.5	13.8	15.5	25.4	0.0	340.6
Flyaway U/C												
Wpn Sys Proc U/C												

rounds per minute. It will engage point targets up to 1,500 meters and provide suppressive fire up to 2,200 meters. Component items for this system include the 40mm asssembly group 1 and the MK64 mount. DESCRIPTION: The MK19, Mod 3 is a self-powered, air-cooled, blowback, 40mm automatic grenade launcher capable of a cyclic rate of 325-375

JUSTIFICATION: The weapon will be mounted on the High Mobility Multi-Purpose Wheeled Vehicle (HMMWV), the Armored Personnel Carrier family of vehicles and the M88A1 Recovery Vehicle. During static defensive operations, it will be ground employed utilizing the M3 Tripod Mount. It will replace select M2 cal .50 and M60 7.62mm machine guns in mechanized, light infantry, engineer, military police, and other combat support and combat service support units. Procurement will help reduce critical supply position for high-priority equipment readiness code (ERC) A shortages in Europe, Korea, and CONUS requirements. The MK175 Pedestal Mount is being incorporated on the MK64 Mount to improve the accuracy and dispersion of the MK19-3 when used on the HMMWV application.

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD C	get Activity/	Serial No: & TRKD CMBT	<u>н</u>	-1 Line Item	P-1 Line Item Nomenclature: GRENADE LAUNCHER, AUTO, 40MM, MK19-	D, 40MM, MK19-		Weapon System Type:		Date: Febru	February 1998
	9	VEHS / 2 / Weapons and Other Combat	apons and C	Wher Combat			3 (G13400)					30,71	
WTCV	9 €	_	FY 96	1 InitCoet	TotalCost	- A	1 InitCost	TotalCost	- ¥86 - ¥6	InitCost	TotalCost	<b>1</b> 88 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 InitCoet
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2. Round Removal Tool (GFM)		187			508			43			85		
3. Engineering Support - In House		793			099			1032			686		
4. Quality Assurance (ARDEC)		45			30			64			65		
5. Integrated Logistic Support		314			15			127			125		
6. Engineering Change Proposal		103			332			38			125		
7. Testing (TECOM)								266					
8. Fielding		406	•		245			174			183	<del></del>	
9. M175 Material Change (Application Costs)											10		
10. MK19 Claim		8688							· · · · ·				
								-,					
TOTAL		32812			32972			7835			12191		

Exhibit	Exhibit P-5a. Budget Procurement History and Planning	listory ar	nd Planning					Date:	Pobrace 1000	
Annountation / Budget Activity/Serial No:		Weapon System Type:	m Type:		D.1 Line Item Nomonolature	omonolaturo.			eoluaiy is	8
PROCUREMENT OF WARNAY COMBAT VEHS /2 / Weapons and Other Combat Vehicles		6			GRE	NADE LAUNC	GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)	IM, MK19	-3 (G13400	_
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	ΔΤΥ	Unit Cost	Specs	Date Revsn	RFP Issue Date
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Hardware	:									
FY 96	SACO Defense, Saco, Maine	SS/FFP	ACALA	Jul-96 May-97	May-97	1500	13	Yes	2	
	SACO Defense, Saco, Maine		ACALA	Apr-97	Jul-98	137	15	Yes	£	
FY 97	SACO Defense, Saco, Maine	SS/FFP	ACALA	Nov-96	May-98	320	4-	Yes	ž	
	SACO Defense, Saco, Maine		ACALA	Apr-97	Sep-98	1423	15	Yes	ž	
	SACO Defense, Saco, Maine	SS/FFP	ACALA	Sep-97	Oct-99	268	15	Yes	ક	
	SACO Defense, Saco, Maine	Option	ACALA	96-unc	Jan-00	139	15	Yes	ş	
FY 98	SACO Defense, Saco, Maine	Option	ACALA	36-unc	Feb-00	400	15	Yes	ş	
FY 99	SACO Defense, Saco, Maine	SS/FFP M-3(2)	ACALA	Dec-98 Jun-00	O0-unc	269	₹ <u>.</u>	Yes	8	
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		Exhibit P-40, Budget I		tem Justification Sheet	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	.e.					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	WPNS & TRKD CMB1	VEHS/2/Weapons	and Other Combat	Vehicles				-	M16 RIFLE (G14900)	_		
Program Elements for Code B Items:	S:			Code:	Other Related Program Elements:	am Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	490368	20473	31826	15583	11297	16067	22848	7472				615934
Gross Cost	224.5	9.8	13.1	6.5	5.0	6.8	9.8	4.9	0.0	0.0	0.0	280.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	224.5	9.8	13.1	6.5	5.0	6.8	9.8	4.9	0.0	0.0	0.0	280.4
Initial Spares												
Total Proc Cost	224.5	9.8	13.1	6.5	5.0	6.8	9.8	4.9	0:0	0.0	0.0	280.4
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DECONOTION, T. T. ACCOUNT	13:00 000			1 - 1 1 - 1 - 1 - 1 - 1 - 1 -								

and is designed for use as the primary infantry weapon. The M16A2 is an improved version the M16A1 Rifle. Improvements include: strengthened plastic handguard, rifle DESCRIPTION: The M16A2 Rifle, 5.56mm, is a gas operated, air cooled, magazine fed, selective rate shoulder fired weapon. It is fed by a 30 round aluminum magazine distinct sight picture, a brass deflector to prevent hot brass cartridge casings from hitting left-handed shooters, and a stronger barrel reinforced with additional metal and a when fired, a burst control device limiting the automatic fire to a miximum of three rounds per trigger pull, and adjustable rear sight and square front sight post for a more stock and pistol grip to increase durability of the weapon, interchangeable handguard halves, muzzle brake compensator which reduces the raise or jump of the muzzle change in the twist ratio of the bore to accommodate NATO standard 5.56mm ammunition. The maximum effective range of the M16A2 has increased from 460 to 550 meters.

JUSTIFICATION: The M16A2 Rifle Program for FY99 provides additional rifles for fielding against the Force Modernization requirement for pure fleeting the field with the M16A2 Rifle. Without additional M16A2 Rifles, a logistic problem associated with different ammunition requirements for the M16A1 vs M16A2 is perpetuated. Funding also supports the M16 Rifle Industrial Base.

Item No. 28 Page 2 of 6 225

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Other Combat Vehicles		Contract				H		Specs	Date	RFP Issue
Was Cost Elements:	Contractor and Location	Method	Location of PCO	Award Date Date of First	Date of First	Σď	Unit Cost	Avail		Date
Fiscal Years		and Type			Delivery	Each	€9	Now?	Avail	
<ol> <li>Rifle (Includes Slings and Magazines)</li> <li>FY 96</li> </ol>	FN Mfg. Co., Inc. Columbia, SC	SS/FFP	ACALA	Aug-96	Jan-97	31813	398	Yes	Š.	
	FN Mfg. Co., Inc. Columbia, SC	M-5(1) SS/FFP / M-5(1)	ACALA	Aug-96	Jan-97	6	231	Yes	§	
FY 97	FN Mfg. Co., Inc. Columbia, SC		ACALA	Dec-96	Jan-99	10320	398	Yes	۶	
	FN Mfg. Co., Inc. Columbia, SC FN Mfg. Co., Inc. Columbia, SC	Option Option	ACALA ACALA	Dec-96 Aug-97	Aug-99 Sep-99	1548 3715	398 398	Yes	22	
FY 98	FN Mfg. Co., Inc. Columbia, SC	SS/FFP M-5(3)	ACALA	Jan-98	Dec-99	11297	398	Yes	2	
FY 99	FN Mfg. Co., Inc. Columbia, SC	SS/FFP M-5(4)	ACALA	Jan-99	Jul-00	16067	398	Yes	2	
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2 Colt's Mfa Co. Inc., Cotumbia, SC	0.0	+	8.0 4.0	12	0.0	<u> </u>		HEURDER	<u>.</u>	+	$\downarrow$	n	+	N			92	+	Q	T	E E	multi-year procurement.	ocuren	ient.		:
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								Date:				
		Exhibit P-4	0, Budget II	Exhibit P-40, Budget Item Justification Sheet	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	.6:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat V	WPNS & TRKD CMBT	VEHS/2/Weapons	and Other Combat	Vehicles				5.56	5.56 CARBINE M4 (G14904)	04)		
Program Elements for Code B Items:	S:			Code:	Other Related Program Elements:	am Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	41582	15892	9785	10603	7484	6310	2898	8309				108652
Gross Cost	20.9	10.8	6.3	6.5	5.0	4.2	5.4	5.3	0.0	0.0	0.0	64.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	20.9	10.8	6.3	6.5	5.0	4.2	5.4	5.3	0.0	0.0	0:0	64.4
Initial Spares												
Total Proc Cost	20.9	10.8	6.3	6.5	5.0	4.2	5.4	5.3	0.0	0.0	0.0	64.4
Flyaway U/C												
Wpn Sys Proc U/C												

capability to engage targets at extended ranges with accurate lethal fire. Although more compact and featuring a collapsible stock, it achieves over 85% commonality with DESCRIPTION: The M4 Carbine is a 5.56mm gas-operated, air-cooled, magazine-fed, selective-rate, shoulder-fired weapon. It is fed by a 30-round magazine and will replace all M3A1 WWII era .45 cal Submachine guns, and selective M16 series rifles and M9 pistols. It provides the individual soldier operating in close quarters the the M16A2 rifle. The effective range is 500 meters.

JUSTIFICATION: The M4 Carbine will provide soldiers with a compact, light-weight weapon that can provide better self protection and additional firepower in close quarters. The FY99 program will allow for the uninterrupted fielding of the M4 Carbine to Army units. Procurement is necessary to achieve the Army Acquisition Objective (AAO) for the M4 Carbine.

Exhibit P-5, Weapon WTCV Cost Analysis	-	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VFHS / 2 / Weapons and Other Combat	iget Activity/. r OF WPNS	Serial No: & TRKD CMBT		P-1 Line Item 5.56	P-1 Line Item Nomenclature: 5.56 CARBINE M4 (G14904)	314904)		Weapon System Type:		Cate. Febru	February 1998
WTCV	₽		FY 96			FY 97			FY 98			FY 99	
ents	8	TotalCost	ģ	UnitCost	TotalCost	ğ	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Oty	UnitCost
	П	\$000	Each	\$000	000\$	Each	\$000	\$000	Each	000\$	000\$	Each	\$000
<ol> <li>Hardware M4 Carbine w/Sling Magazine &amp; Blank Firing Attachment</li> </ol>	⋖	5161	9785	Ţ	5524	10603	<del>-</del>	3899	7484	<del>*</del>	3288	6310	~
2. Engineering Support - In House Support		400			362			425			443		
3. Engineering Change Proprosals (ECP's)		59			48			105			85		
4. Quality Assurance (ARDEC)		75			75			75			75		
5. ILS		65						92			65		
6. Engineering Studies		220											
7. Comparison Test (TECOM)					175			151					
8. Fielding		312			339			264			274		•
TOTAL		6292			6523			4984			4230		
						A CAMPAGNA TO THE STATE OF THE							

Item No. 29 Page 2 of 6 231

								Date:		Γ
Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	istory an	d Planning					ıΞ	February 1998	8
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and		Weapon System Type:	n Type:		P-1 Line Item Nomenclature:	domenctature:	J18:	1001		
Other Combat Vehicles						9:30	O CANDINE M4 (0	(4304)	- 1-	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	ΔΙΛ	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
1. Hardware FY 96	Colt's Mfg Co., Inc. Hartford, CT		ACALA	Oct-97	Jun-98	0009	<del>-</del>	Yes	2	
	Colt's Mfg Co., Inc. Hartford, CT	SS/FFP	ACALA	Mar-98	Oct-98	3785	_	Yes	ş	
FY 97	Colt's Mfg Co., Inc. Hartford, CT	SS/FFP ACALA	ACALA	Mar-98	Apr-99	10603	_	Yes	2	
FY 98	Colt's Mfg Co., Inc. Hartford, CT	_	ACALA	Jan-98	96-unc	0009	· -	Yes	2	
	Colt's Mfg Co., Inc. Hartford, CT	SS/FFP	ACALA	Mar-98	Oct-00	1484	+	Yes	<sub>S</sub>	
FY 99	Colt's Mfg Co., Inc. Hartford, CT	SS/FFP	ACALA	Jan-99	Jun-00	0009	<b>-</b>	Yes	8	
	Colt's Mfg Co., Inc. Hartford, CT		ACALA	Jan-99	Dec-00	310	<b>-</b>	Yes	S S	
		SS/FFP								
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REMARKS:										

EV 98 / 99 RUDGET PRODUCTION SCHEDULE	UCTION	SCH	EDUL	ш			<u>-</u>	P-1 Item Nomenclature:	menc	ature:	`	CARE	5.56 CARBINE M4 (G14904)	4 (G14	1904)						Date:	. <u>.</u>			Febr	February 1998	866		
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1 Colt's Mfg. Co. Inc., Hartford CT	0.5		2.0	+	8.0	18		<u>"</u>	REORDER	١	4	4	7	T		2	†		₹	+	8		- S	stainin	ar ate	of 500	sustaining rate of 500 weapons/ month.		e e
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	1 FY97		A 10.6	9.	10.6	3			Y			_					_		0	0.4 0	0.6 0.6	9.0	9.0	9.0	7.2
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	1 FY98	_	A 6.0	0	0.9			٧							_					Н	0.5	5 0.5	0.5	0.5	4.0
	1 FY 98	8	A 1.5	5	1.5				A																1.5
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	1 FY 99	6	A 0.3	3	0.3				_								٧				L				0.3
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		$\dagger$		1		4	뿚	REORDER	+	4	١	+					4		T	require	ments	will also	requirements will also be awarded to Colt	rded to	្ត ទី
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	<u> </u>	$\dagger$		1	<u> </u>	ļ	Z	INITIAL	t	╀		╁					╀		Ī	leadtin	ies will	not be	leadtimes will not be met due to	<u>ا</u> و	
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FY 98 / 99 BUDGET PRODUCTION SCHEDULE	UCTIO	SCF	(EDU)	Ш			<u>-</u>	P-1 Item Nomenciature	от	Slature		CARBI	5.56 CARBINE M4 (G14904)	(G149	<u></u>					<u> </u>	Cate:			Febr	February 1998	86		
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Hardware	1 95	95⪻	A	57.5	27.5		Ц		H	Н	Ц				Н				$\vdash$	$\vdash$	$\vdash$							
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	1 FY	FY97	z	1.8	1.8					$\dashv$	Ц										$\dashv$	4		_				
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Total		T	$\top$	99.4	80.4	19.0	=	<u>-:</u>	=	=		=	=	듸	<u></u>	=	=	=	=	0.5	0.5 0.5	5 0.5	5 0.5				$\dagger$	
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W		PRODUCTION RATES	TION RAT	'ES			_	MFR	1	ł	ł	Ц	ADM	N LEA	ADMIN LEAD TIME		Ļ	MFR	H	٥	TOTAL	L	REMARKS	RKS		1	i	
		<del>                                     </del>				REACHED		Number				ď	Prior 1 Oct.		After 1 Oct.	Ö	₹	After 1 Oct.	┇	After	After 1 Oct.	₽ <u>3</u>	retain	To retain Colt in the Small Arms	the S	mall Ar	TIS.	
R NAME / LOCATION	≥	Ä.	1-8-5	-5	MAX.	å	7	<del>- 1</del>	INITIAL		4	$\downarrow$	_	$\dagger$	54		_	ြ	+	"	g ;	Ě	ausina vardad	industrial base, a munityear contract was awarded in Oct 97 providing a minimum	M M M M	nyear c	oniraci a min	Was
1 Colt's Mfg. Co. Inc., Hartford CT	°	25	5.0	$\int$	8.0	₽	4	1	REORDER	E I	4	↓	^	†	=		1	7	†		5	3 T	stainin	sustaining rate of 500 weapons/month,	500	Wead	ow/sux	Ę
	1	+					Т		RECRUER	٩	+	1		$\dagger$			_		$\dagger$			æ T	lance	Balance of annual requirements will also	uaf rec	uirem	ents wil	also
	-	T					╀	Ī	NITIAL		L	L		t			L		f			8 <u>3</u>	awar	be awarded to Colt based on a recent	Solt ba	sed on	a 1909	<u>.</u>
		H				Ц	$\dashv$		REORDER	ER	Ц	Ц		H			Ц		H			8.9	D TO THE	be met due to termination of FY96	ermina	tion of	FY96	<u> </u>
		+							INITIAL		$\sqcup$	Ц		+					$\dagger$			8	intract.	contract. Funded delivery period and	ed deli	very pe	riod an	771
	1	$\dagger$					+	Ť	RECHDER	Ħ	+			t		١	ļ		t			Ž (	FR lea	MFR leadtimes extended to maintain	extend	Sed to r	naintai	_
	1	$\dagger$				ļ	Т		RECEDEDE	Įğ.	$\downarrow$			$\dagger$			$\downarrow$		†			8 T		continuity in production rates.	anctio	n rates		
	$\left\{ \right.$	1					$\mathbf{I}$	1			-			1			-		1			ł			l	l		

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 item Nomencfature:	.e.					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat V.	APNS & TRKD CMBT	VEHS / 2 / Weapons	and Other Combat V	/ehcles				M4C	M4 CARBINE MODS (GB3007)	(2001)		
Program Elements for Code B Items:	:5			Code:	Other Related Program Elements:	am Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	6.0	4.5	4.9	5.1	5.4	0.0	0:0	0.0	0.0	20.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	6.0	4.5	4.9	5.1	5.4	0.0	0.0	0.0	0.0	20.8
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	4.5	4.9	5.1	5.4	0.0	0.0	0.0	0.0	20.8
Fiyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The M4 Carbine Modification Program provides a close combat optic, a modular weapon suite, an improved buttstock, a top carry sling and a permanently affixed back-up iron sight for the M4 Carbine. Also it provides the capability for firing the M203A1 Grenade Launcher (GL) with the M4 Carbine. JUSTIFICATION: The close combat optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity and and allows the combat commander to custom configure weapons based upon the mission. The top sling maintains the Carbine in an upright positiion freeing the user's improves hit probability in daylight, low light level, wet weather and other adverse conditions. The modular weapon system is a key component of Land Warrior Lethality hands for other tasks. The permanent back-up, rear opertive, iron sight provides that capability in the event it becomes immediately necessary. The M203A1 Grenade Launcher insures campatibility with the M4 Carbine. The improved buttstock provides the rifleman an ergonomically optimized buttstock for the M4 Carbine.

Exhibit P-	Exhibit P-40M Budget Item Justification Sheet	em Justifice	ation Sheet			Date		February 1998		
Appropriation / Budget Acitvity/Serial No.				P-1 Item Nomenclature						
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	pons and Other Combat V					M4 C	M4 CARBINE MODS (GB3007)	(007)		
Program Elements for Code B Items		Code	Other Related Program Elements	ım Elements						
Description	Fiscal Years									
OSIP NO.   Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
nbat Optics										
TBD1 Operational	0.0	3.1	1.1	2.6	5.4	0.0	0.0	0.0	0.0	13.1
M203 for M4 Carbine										
TBD2 Operational	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Modular Weapon System (M4 Carbine)										
TBD3 Operational	0.0	1.0	3.1	1.1	0.0	0.0	0.0	0.0	0.0	5.2
M4 Improved Buttstock										
TBD4 Operational	0.0	0.0	0.7	1.4	0.0	0.0	0.0	0.0	0.0	2.1
Totals	6.0	4.5	4.9	5.1	5.4	0.0	0.0	0.0	0.0	20.8
							,			
		-								
								<u> </u>		

INDIVIDUAL MODIFICATION	Date	February 1998	Γ
MODIFICATION TITLE: Close Combat Optics (M4 Carbine) TBD1			
MODELS OF STSTEMS AFFECTED: M4 Carbine, M68 Sight Reflex DESCRIPTION / JUSTIFICATION:			
The M68 Sight will be installed on the M4 Carbine. The close combat optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity. The close combat optic gives the soldier greater hit probability in daylight, low light level, wet weather and other adverse conditions.	with both eyes it probability in	open allowing daylight, low light	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: PLANNED ACCOMPLISHED			
Development/Operational Test  Type Classification (LRIP)  Production Contract Award  1/2Q96  4Q96  Production Language Delivered Award			
2Q98			
Pr Yr FY 1997 FY 1998 FY 1999 FY 2 Totals 11 2 3 4 1 2	FY 2000	FY 2001	1
FY 2002 FY 2003 FY 2004 FY 2005		To	Totals
Inputs	4 Complete	et	
METHOD OF IMPLEMENTATION: Unit Application ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME:	LEADTIME: 6	Months	
Jul 97 FY 1998 Jan 98 Jul 98 FY 1998 Mar 99	Jan 99 Jun 99		

FINANCIAL PLAN; (§ in Millorial)   FINANCIAL PLAN						Z	INDIVIDUAL MODIFICATION	MODIF	CATION								Date		Februa	February 1998	
F. F. 1986	MODIFICATION TITLE (Cont):		ŏ	se Co		ptics (	M4 Car	bine) T	BD1												
The control of the	FINANCIAL PLAN: (\$ in Millions)	ì	000																		
CDy   S   CDy		and	Prior	F	1997	FY 1	866	FY 18	66	FY 20	8	FΥ2	8	FΥ	3002	F	2003		C	TOT	AL.
1469   14932   14932   14932   2401   12005   20736   20736   2490   2401   25036   24036   2401   25036   240		ĝ	\$	Q ty	€\$	ð	€9	δ	€9	oty	69	á	\$	ĝ	₩	ģ	\$	άţ	\$	Qty	
Nonrecurring 0.746 2.863 0.859 2.401 5.196 0.0150 0.02	RDT&E		1.469																		1.469
3968   14822   4480   12005   2.401   5.196   5.000	PROCUREMENT																			•	
The control of the co	Kit Quantity	3888		14932		4480		12005		20785										26090	
org         0.746         2.863         0.401         0.136         0.115         0.115         0.115         0.115         0.115         0.115         0.115         0.115         0.020         0	Installation Kits																				
The control of the co	Installation Kits, Nonrecurring																				
199 0.0064 0.140 0.139 0.138 0.115 0.0050 0.	Equipment		0.746		2.863		0.859		2.401		5.196										12.065
0.084   0.140   0.138   0.115   0.000	Equipment, Nonrecurring																				
0.050   0.050   0.050   0.050   0.050   0.050   0.050   0.050   0.050   0.050   0.050   0.02	Engineering Support		0.084		0.140		0.139		0.138		0.115										0.616
poort         0.010         0.020 <th< td=""><td>Testing</td><td></td><td>0.050</td><td></td><td>0.050</td><td></td><td>0.050</td><td></td><td>0.050</td><td></td><td>0.050</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.250</td></th<>	Testing		0.050		0.050		0.050		0.050		0.050										0.250
0.010   0.02	Integrated Logistical Support		0.010		0.020		0.020		0.020		0.020				_						0.090
Kits 3888 14421 511 14421 4480 10505 12005 1	Fielding		0.010		0.020		0.020		0.020		0.020										0.00
	Other																				
Kits 3888	Interim Contractor Support																				
Kits   3888   14421   14421   14932   14932   14932   14932   14932   14932   14005   1500   15005   12005													•								
Kits							····														
1 Kits 3888 3888 3189 4480 10505 1	orentation of Hardware																				
true capturations         511         14421         14932           trie Kits         1500         10505         14932           trie Kits         1500         10505         12005           trie Kits         12005         12005           trie Kits         12006         12006           trie Kits         12007         12007           trie Kits         12007         12007           ent         12007         12007           ment Cost         2007         11           trie Kits         11         11	EV 1006 & Drior East - Kite					988														3888	
It - Kits     It 4480     It 4480     It 4480     It 4480       It - Kits     It 500     10505     12005       It - Kits     It 500     10505     12005       It - Kits     It - Kits     It 500     10505       It - Kits     It 500     10505     12005       It - Kits     It 500     10505     1000       It - Kits     It 5000     1000     1000       It - Kits     It 5000     1000     1000       It - Kits     It 5000     1000     1000       It - Kits     It 5000     1000     1000       It - Kits     It 5000     1000     1000       It - Kits     It 5000     1000     1000       It - Kits     It 5000     1000     1000						9														200	
vt Kits     4480     4500     10505     4480     4480       vt Kits     1500     10505     12005     12005       vt Kits     vt Kits     12005     12005     12005       vt Kits     11 Kits     12000     12005     12005       vt Kits     11 Kits     12000     12000     12000       ent     11 Kits     11 Kits     11 Kits     11 Kits     11 Kits	FY 1997 Eqpt Kits					511		14421												14932	
vt Kits     1500     10505     12005       vt Kits     20785     20785       vt Kits     11	FY 1998 Eqpt Kits							4480												4480	
v1 kits     20785     20785       v1 kits     11     20401     31290       ent     60.9     3.1     1.1     2.6     5.4	FY 1999 Eqpt Kits							1200		10505					-					12005	
Nt kits       ot kits       ot kits       ent       ment Cost     0.9       3.1     1.1     2.6     5.4     1.1     56090	FY 2000 Eqpt kits									20785										20785	
of kits  ot kits  ent  ent  ment Cost  0.9  3.1  1.1  2.6  5.4  9  5.6090	FY 2001 Eqpt kits																				
ent ment Cost 0.9 3.1 1.1 2.6 5.4 5.4 5.9 56090	FY 2002 Eqpt kits																				
ent ment Cost 0.9 3.1 1.1 2.6 5.4 5.4 5.9	FY 2003 Eqpt kits																				
0.9         3.1         4399         20401         31290         5.4         5.4         56090	TC Equip-Kits																				
0.9 3.1 1.1 2.6 5.4	Total installment					4389		20401		31290										26090	
	Total Procurement Cost		6.0		3.1		1.1		5.6		5.4										13.1

					NDIV	DUAL N	INDIVIDUAL MODIFICATION	NOIT			Ì		:	۵	Date	February 1998	1998	Г
MODIFICATION TITLE:	M203 for M4 Carbine	M4 Ca	rbine T	IBD2														
MODELS OF SYSTEMS AFFECTED: M4 Carbine, M4A1	FFECTED	M4 Carl	oine, M4.	¥.										; ;			:	
DESCRIPTION / JUSTIFICATION:	ATION:																	
The Army units assigned the M4 Carbine will obtain the capability to fire the M203 Grenade Launcher (GL) with the M4 Carbine.	gned the	M4 Ca	rbine v	vill obta	in the	capab	ility to fi	re the	M203	Gren	ade La	nnche	r (GL) \	vith the	M4 Carbin	o.		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	/ MAJOR I	DEVELO		MILESTONES:	ONES:			PL	PLANNED				ACC	<b>ACCOMPLISHED</b>	HED			
Developmental/Operational Tests Type Classification/Milestone III	rational T	ests										1097 4097	1Q97 4Q97					
Production Contract Award	Award											4Q97	76					
First Production Hardware Delivered First Unit Equipped	dware De	elivered					99	2Q98 3Q98										
																		-
Installation Schedule:	,	EV 4007	200			EV 1009	۵	F	111	EV 1000		-	1	EV 2000	-	EV 2004	5	
<u>.</u> 7	Totals 1	2	3	4	-	2	3	4	-	2	3	4	1 2	3	4	2	3	4
Inputs Outputs									-									
	Ŧ	FY 2002			FY 2003	8	-	۳.	FY 2004	-	4	٦	FY 2005		To	_	Tot	Totals
	1	6	4	-	7	e	4	-	7	6	4	=	2	4	Complete			T
Inputs Outputs																		
METHOD OF IMPLEMENTATION:	TATION:	Unit Ap	lication	A	SINIMO	<b>TRAT!V</b>	ADMINISTRATIVE LEADTIME:	IME:	6		Months	PRO	ристю	PRODUCTION LEADTIME:	IME: 7	Months		
Contract Dates:		FY 1997		Sep 97		Œ i	FY 1998					FY 1999	666					
Delivery Date:		FY 1997		Mar 98	ŀ	۲	FY 1998					FY 1999	666					7

FIVANCIAL PLAK (§ in Millors)   FIV 1999   FIV 1999   FIV 2000						NOVIC	UAL M	INDIVIDUAL MODIFICATION	5							Date	Februs	February 1998	
FY 1986	MODIFICATION TITLE (Cont):	-	M203	for M4 C	Sarbin	э ТВОх													
Prince   P	FINANCIAL PLAN: (\$ in Millions)		. 1																
Otyl		FY 1996		:V 1997		V 1998		:Y 1999	<u>F</u>	2000	À	2001	7	2002	Ε¥	2003	0	0	Ŋ.
Nonrecurring 2576  The security of the securit		Oty \$	ð	<u>-</u>	ð	1	ð		ģ	\$	ĝ	\$	Qty	\$	Oty	\$		Qty	<del>cs</del>
Nonrecurring Nonrecurring Norre	RDT&E	<u> </u>						-											0.631
Ourling 0.222  19 0.070  19 0.040  10 0.040  10 0.030  2576  11 0.44	PROCUREMENT															_			
10g 0.222 10g 0.070 10port 0.040 10port 2576 1 Kits 2576	Kit Quantity		32	92												_		2576	
Surfing 0.222 0.070 0.090 0.00	Installation Kits																		
10g 0.222  10port 0.030  11- Kits  12576	Installation Kits, Nonrecurring																		
199 0.070 19port 0.040 10-14 10-14 11-15 1	Equipment			0.2	22														0.222
pport 0.0070	Equipment, Nonrecurring	, .																	
Poort  1 - Kils  1 - Kils  1 - Kils  1 - Kils  1 - Kils  2576	Engineering Support			0.0	2														0.070
Port 0.040  LKite Kite Kite	Testing																		
1 Kits 2576 2576 2576 2576 2576 2576 2576 2576	Integrated Logistical Support			0.0	<u>Q</u>														0.040
1 Kits 1	Fielding			0.0	<u>0</u>	-													0.030
1 Kits 1	Other																		
1 - Kits 2-676 2-6	Interim Contractor Support																		
1 - Kits 1 - Sorting 2576 2576 2576 2576																_			
1 Kits Ki																			
1 Kits 1 Kits 2 Kits 2 Kits 2 Kits 3 Kits 3 Kits 4 Kits 5 Kits 6 Kits 7 K																			
1 Kits 1 Kits 2576 2576																			
1 Kits 1 Kits 2576 2576	Installation of Hardware																		
rt - Kfis rt - K	FY 1996 & Prior Egpt Kits										·								
rt - Kits       rt - Kits       rt - Kits       rt - Kits       rt - Kits       rt - Kits       ent       ment Cost	FY 1997 Eapt Kits				52	-92												2576	
rt - Kits         rt - Kits         rt - Kits         rt - Kits         rt - Kits         ent         ment Cost	FY 1998 Fant Kits																		
rt - kits       rt - kits       rt - kits       rt - kits       rt - kits       ent       ment Cost	FY 1999 Eapt Kits																		
tt – kits tt – kits tt – kits ent ent ment Cost	EV 2000 Fapt kits	·																	
tr - kits tr - kits ent ent ment Cost	EV 2001 Fant kits																		
of the kits	EV 2000 Fabra - tite	<del></del>																	
ent ment Cost 0.4	1 2002 Lypt - Nils			_															
ent ment Cost	FY 2003 Eqpt kits																		
0.4	Total Installment		+		2,5	76	+											2576	
	Total Ilistallinent		+		4	2	+		$\downarrow$										
	Total Procurement Cost		$\dashv$	7	4.	$\exists$	-		$\rfloor$										0.4

=	INDIVIDUAL MODIFICATION	IODIFICA.	NOIT						Date	15	February 1998	æ	Г
MODIFICATION TITLE: Modular Weapon System (M4 Carbine) TBD3	Carbine) TB	D3											
MODELS OF SYSTEMS AFFECTED:				3									
DESCRIPTION / JUSTIFICATION:													
The modular weapon is a system of mounting rails/methods to allow the custom configuration of M4 Carbines with ancillary items such as optics, night sights, IR laser pointers, the grenade launcher, back-up sights, etc., based upon mission requirements.	iting rails/methods to allow the custom configuration of M4 Carbines with a grenade launcher, back-up sights, etc., based upon mission requirements	allow thack-	ne custo ights, e	om con tc., bas	figurati sed upo	ion of Mo on missi	4 Carbir on requ	nes with irement	ancillary i s.	tems	such a	S	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	NES:	PLA	PLANNED			AC	ACCOMPLISHED	ISHEC					
Developmental/Operational Tests					ñ	3095-2096	96						
Milestone III Production Decision Production Contract Award						4Q97 4Q97							
First Production Hardware Delivered		3098											
First Onit Equipped		4C98											
Installation Schedule:												į	
FY 1997	FY 1998			FY 1999	666		Œ	FY 2000			FY 2001		
Inputs	- 5	e	4	2	e	4	-	3	4	-	CI CI	e e	4
Sindipo			_			_					1	-	
FY 2002 F	FY 2003		FY	FY 2004			FY 2005			10		Į	Totals
1 2 3 4 1	2 3	4	1 2	3	4	1	2	3 4	Complete	ate			
Inputs Outputs													
APLEMENTATION: Unit Application	ADMINISTRATIVE LEADTIME:	E LEADTI	MË	9	Months		PRODUCTION LEADTIME:	N LEAD	TIME: 13	3 Months	ıths		
s: FY 1997	Ŧ	FY 1998	May 98	<b></b>		Ā	FY 1999	Nov 99					
Delivery Date: FY 1997 Apr 98	FY	FY 1998	Oct 99			F	FY 1999	Dec 00					

FY 2000 FY 2001 FY 2003 TC Aly \$ Aly \$ Aly \$ Section						IVIDUAL	INDIVIDUAL MODIFICATION	ATION							Date		February 1998	y 1998	
C (S in Millions)   C (S	MODIFICATION TITLE (Cont):	M	odular	<b>V</b> еаро	Syste	m (M4	Carbine	) ТВВЭ											
Columbia   Columbia	FINANCIAL PLAN: (\$ in Millions)	EV 1006	_													•			
Coly   S   Coly   S		and Prior	¥	1997	FY 19	866	FY 199	6	FY 2000	F	7 2001	ᅜ	2002	FY	5003	F	U	TOT	A.
Nonecurring necu		Oty \$	Qty	\$	Qty	<del>\$</del>	Qty	Н	Н	οţ	\$	Qţ	€9	Öţ	\$	Öţ	€	χį	<del>s</del>
Nomecurring necurring 0.880 2.751 0.896 port cecurring port 0.026 0.200 0.125 0.039	RDT&E	<u> </u>	ı					ļ											1.158
3332   19829   2500   2761   0.886	PROCUREMENT															·			
ng 0.058 0.200 0.125 0.000 0.125 0.000 0.125 0.000 0.125 0.000 0.125 0.000 0.162 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0	Kit Quantity		3332		10829		2500											16661	
During 0.880 2.761 0.896 port 0.025 0.020 0.125 port 0.025 0.125 0.039 port 0.025 0.162 0.038 port 0.025 0.038 port 0	Installation Kits															-			
1-Kits  10.00000  10.0000  10.0000  10.0000  10.0000  10.0000  10.0000  10.0000  10.0000  10.0000  10.0000  10.0000  10.0000  10.0000  10.0000	Installation Kits, Nonrecurring																		
Poport	Equipment			0.880		2.761	_	968.											4.537
0.058	Equipment, Nonrecurring																		
Deport	Engineering Support			0.058		0.200	_	.125											0.383
Diport   0.025   0.036   0.038	Testing			0.020															0.020
0.025   0.162   0.038	Integrated Logistical Support			0.015		0.025		0:030											0.070
1 Kits  Ki	Fielding			0.025		0.162	_	9:03											0.225
1 Kits 1 Kits 2-000 1332 2661 8168 2560 2500 151 2500 151 2500 151 15161	Other																, ,		
1 Kits 2000 1332 8168 2661 2500 8168 2500 8168 2500 8168 2500 8168 2500	Interim Contractor Support																		
1 Kits 2000 1332 2661 8168 2661 2500 8168 2500 8168 2500 8168 2500 817 818 818 818 818 818 818 818 818 818																			
1 Kilis 2000 1332 2661 8168 2500					_,												,		
1 Kits 2000 1332 2661 2500 2500 310 1.1 1.1										·									
1 - Kits						· · ·		<u> </u>											
1 Kits 2000 1332 2661 2661 2500 2500 2500 2500 2500 2500 2500 250	Installation of Handware																,		
1332     2000     1332     2661       134- Kits     2500     2500       15- Kits     1000     9500     5161       15- Kits     10     3.1     1.1	EV 1996 & Prior East Kite																		
1000     2661       11 - Kits     2500       12 - Kits     2500       12 - Kits     3.1       13 - Kits     1.1	EV 1007 East : Kits				000		1330											3332	
11 - Kits       2500       2500       2500       2500       2500       2500       2500       31       31       11	17 1997 E-17				3		300											1000	
11 - Kits       21 - Kits       21 - Kits       22000       31   1.1	ST 1990 Equit :						00		ē 6									0000	
91 kits       91 kits       91 kits       9500     9500       9500     5161       9500     1.0       9500     1.1	FY 1999 Eqpt Kits							N	000									200	
91 Kits       91 Kits       9500     9500       6nt     1.0       3.1     1.1	FY 2000 Eqpt kits																		
st kits       ot kits       ent     2000     9500     5161       ment Cost     1.0     3.1     1.1	FY 2001 Eqpt kits																		
ot kits  ent  ent  ment Cost  1.0  3.1  1.1	FY 2002 Eqpt kits																		
ent ment Cost 1.0 3.1 1.1	FY 2003 Eqpt kits																		
1.0 3.1 1.1	TC Equip-Kits						-			1								70007	
1.0	Total Installment				2000	1	9200	<u>^</u>	191	1								19991	
	Total Procurement Cost			<u>6.</u>		3.1		=		4									5.2

Monthage   Monthage					2	VIDUAL	INDIVIDUAL MODIFICATION	Š							Date		repinal	reprusity 1998	
PY 1996 and Prior Oy \$ Cy \$ Cy \$ Cy \$ Cy \$ Cy \$ Cy \$ Cy \$	MODIFICATION TITLE (Cont):	M4	· Impro	/ed But	tstock	TBD4													
Pri 1999	FINANCIAL PLAN: (\$ in Millions)	77																	
Obj. \$ Obj. \$		and Prior	FY 16	397	FY 15	98	FY 199		FY 2000	-	FY 2001	<u></u>	7 2002	FY	2003		0	TOT	₽ F
Nonrecurring hord from the control of the control o		Oty \$	ð	ક્ક	Qty	\$	Qty	$\vdash$			L	Qty	↔	Qty	\$	Qty	\$	Qţ	es-
Nonrecurring  Nonrecurring  Port  Lical Support  Dr. Sipp	RDT&E	<u> </u>										L							0.377
Tool 10300 5065 1.381 60671 60687 60	PROCUREMENT																		
Out prport 0.585 1.381	Kit Quantity				10300		50571											60871	
Out of the control of	Installation Kits																		
19 0.065 1.381 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.006 0.000 0.020 0.020 0.000 0.0	Installation Kits, Nonrecurring																		
99 0.065 0.045 0.045 0.005 0.0	Equipment					0.555		1.381											1.936
hport 0.005 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.046 0.005 0.046 0.005 0.046 0.005 0.046 0.005 0.046	Equipment, Nonrecurring	-			-														
Kits 10300 1055 10300 10571 10500 10500 10500 10500 10500 10571 10500 10571 10500 10571 10500 10571 10500 10571 10500 10571 10500 10571 10500 10571 10500 10571 10500 10571	Engineering Support					0.065	_	0.045											0.110
Doort	Testing					0.010													0.010
Kits Kits	Integrated Logistical Support					0.020	_	0.005											0.025
Kits 10300 35000 15571 50571 50571 50571	Fielding																		
	Other																		
	Interim Contractor Support																		
Kits 10300 10300 10571 10300 1030																			
Kits Kits																			
Kits																			
Kits 10300 10300 10571 50571 50571 506715000 50671 50671 50671 50671 50671 50671 50671 50671 50671 50671																			
rior Eqpt - Kits 110300 110300 110300 11- Kits 1	Installation of Hardware																		
10300     10300     10300     10300       11 - Kits     35000     15571     50571       11 - Kits     11 - Kits     11 - Kits     11 - Kits       11 - Kits     11 - Kits     11 - Kits     11 - Kits       11 - Kits     11 - Kits     11 - Kits     11 - Kits       12 - Kits     11 - Kits     11 - Kits     11 - Kits       12 - Kits     11 - Kits     11 - Kits     11 - Kits       12 - Kits     12 - Kits     11 - Kits     11 - Kits       12 - Kits     12 - Kits     11 - Kits     11 - Kits       12 - Kits     12 - Kits     11 - Kits     11 - Kits       12 - Kits     12 - Kits     11 - Kits     11 - Kits       13 - Kits     14 - Kits     11 - Kits     11 - Kits	FY 1996 & Prior Eqpt Kits							_											
110300       110300 <td< td=""><td>FY 1997 Eqpt Kits</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	FY 1997 Eqpt Kits																		
11 - Kits       35000       15571       50571         11 - Kits       11 - Kits       60871         11 - Kits       11 - Kits       60871         11 - Kits       11 - Kits       60871	FY 1998 Eqpt Kits						10300											10300	
tt kits tt kits tt kits tt kits tt kits ment Cost ment Cost	FY 1999 Eqpt Kits					•	32000	_	5571									50571	
tt kits tt kits tt kits ment Cost tt kits t	FY 2000 Eqpt kits												<del>-</del>						
tt kits tt kits ent ent	FY 2001 Eapt kits												-·· <del>-</del> -						
nt kits ent ent ment Cost 0.7 1.4	FY 2002 Egpt kits																		
ent ment Cost 0.7 1.4	FY 2003 Eapt kits																		
ent 60871 60871 60871 60871 60871 60871	TC Equip-Kits																		
0.7	Total Installment						45300	1	5571									60871	
	Total Procurement Cost					0.7		1.4											2.1

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Ite	em Justification Sheet	tion Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	.e.					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	WPNS & TRKD CMBT	VEHS / 2 / Weapons	s and Other Combat V	ehicles				M119 N	M119 MODIFICATIONS (GC0401)	:0401)		
Program Elements for Code B Items:	ï			Code:	Other Related Program Elements:	ım Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Oty												
Gross Cost	0.0	0.0	0.0	0.0	4.9	4.8	2.9	3.2	0.0	0.0	0.0	15.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	4.9	4.8	2.9	3.2	0.0	0.0	0:0	15.8
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	4.9	4.8	2.9	3.2	0.0	0.0	0:0	15.8
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION: Light Artillery System Improvement Plan	ht Artillery Sy	stem Improv		LASIP) for the	(LASIP) for the 105mm, M119A1 Light, Towed Howitzer	119A1 Light,	Towed How	İzer				

initiates this process by correcting known deficiencies, improving reliability, availability and maintainability (RAM), and providing solutions to requests for minor operational with growth potential. Now that 418 M119A1 howitzers have been fielded, it is time to realize that growth potential. The Light Artillery System Improvement Plan (LASIP) JUSTIFICATION: The 105mm M119A1 Light, Towed Howitzer was selected as the weapon of choice for the light forces because it was a nondevelopmental item (NDI) enhancements. The LASIP was developed by the M119A1 Howitzer Improvement Team (HIT), chartered specifically to respond to improvements requested by field artillery units, the U.S. Army Field Artillery School (USAFAS) and the U.S. Army Training and Doctrine Command (TRADOC).

	Exhibit P-	Exhibit P-40M Budget Item Justification Sheet	m Justifica	tion Sheet			Date		February 1998		
Appropriation / Budget Activity/Serial No. PROCUHEMENT OF WPNS	in / Budget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	ons and Other Combat Ve	hicles	<u>a.</u>	P-1 Item Nomenclature	18	M119 M	M119 MODIFICATIONS (GC0401)	0401)		
Program Elements for Code B Items	5		Code	Other Related Program Elements	n Elements						
Description		Fiscal Years									
OSIP NO.	Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
Block 1 Upgrade											
TBD1	Operational	0.0	0.0	4.9	4.8	2.9	0.3	0.0	0.0	0.0	12.8
Block 2 Upgrade											
TBD2	Operational	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	13.9	16.8
Totals		0.0	0.0	4.9	4.8	2.9	3.2	0.0	0.0	13.9	29.6
and the state of t											
					:						

					INDIN	INDIVIDUAL MODIFICATION	DIFICA	NOL						Oate	9	Į ū	Fahruan 1008	80	
MODIFICATION TITLE:	Block 1 Upgrade TBD	Jpgrad	3 TBD1																
MODELS OF SYSTEMS AFFECTED: Howitzer, Light Towed, 105mm M119A1	AFFECTED	: Howit:	zer, Lig	ht Tow	ed, 10£	mm M	119A1												
DESCRIPTION / JUSTIFICATION:	CATION:																		
Retrofit Low Temp Recuperator 1-90-05-7875; The seals function only to temperature of -25F not the -50F. Improve Indirect Fire control;	Recupera	tor 1-9	0-05-75	375; Th	e seals	875; The seals function only to temperature of -25F not the -50F. Improve Indirect Fire control;	on only	to tem	peratu	re of -2	25F no	t the -	50F. Ir	nprove	Indirec	X Fire	contro		
systems when Operational Mode Profile (OMP) is factored in. Upgrade Cam Follower Arm; Preventing damage to the cam follower will	rational N	ode Pi	ofile (O	MP) is	factore	odino. L	Jpgrad	e Cam	Follow	ılalely 'er Arm	1. Prev	enting	damag	je to tř	e cam	follower	er wille		5
improve reliability, availability and maintainability while reducing Operating and Support costs (OSCR). Improve Firing Stays; The design and	availability	y and n	naintain	ability \	while re	educing	Operation of	ating an	ldnS pu	port co	sts (O	SCR)	Impro	ve Firi	ng Stay	s; The	desig	n and	
emplacement. Improve Traveling Stays; The design and mounting clearances for the clevis pins on the traveling stays make it very difficult to	rove Trav	reling S	tays; Ti	he desi	ign and	l mount	ing cle	arance	s for th	ie clevi	is pins	on the	travel	ing sta	stays t	e it vel	y diffi	cult to	
attach the stays to the trail when preparing for towing Redesign Rammer/Extractor Tool; Modify Brake System; The system required a special production run by the British manufacturer, the brake also used asbestos brake linings. Add Trail Lifting Handles; Due to limited clearance, the user has requested trail lifting handles be designed.	the trail whe British I trail lifting	hen pri manufi g handl	eparing acturer, es be c	g for towir ', the brak designed.	ving Re ake als d.	design o used	Ramn asbesi	ner/Exti tos bra	actor 1 ke linin	Γool; N igs. Aα	fodify I dd Trai	Brake il Liftin	Systen g Hanc	; The lles; Di	system Je to lin	requir nited c	ed a s learan	pecial ice, th	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	3 / MAJOR	DEVELO	PMENT	MILEST	SANC:														
		<u>.</u>	Planned		Accomplished	lished						Planned	peu	Ä	Accomplished	hed			
Validate Materiel change (MC)	ange (MC	S)			3030	06		Deli	<b>Deliver First Mod Kit</b>	st Mod	Ξ.	-	4Q98		•				
Critical Design Review	ew				3091	31		First	First Unit Equipped (FUE)	quippe	d (FUI	_	1099						
Complete Testing of Prototype	f Prototyp	ē j	í		3092	92		Deli.	Deliver Last Mod Kit	t Mod	호 : :		3001						
Helease Technical Data Package (TDP)  Award Contract for Modification Kits	Jata Paci Modificati	kage (I	UP) 20	2098	ř	- C		Ľä	Last Unit Equipped	Equip	pec		4004						
Installation Schedule:				:															
<u> </u>	Pr Yr	FY 1997	266			FY 1998			FY	FY 1999			FY 2000	00			FY 2001	_	
	Totals 1	2	8	4	-	2	3	4	2		4	-	2	3	4	-	2	3	4
Inputs Outputs								30 30	30	35	35	35	35	35	35	35	<b>4 4</b>	04 04	40
	<u>≿</u>	8	1	-	FY 2003			딦	Š			FY 2005	18	$\exists$		<u>م</u>		P	Totals
	1 2	6	4	-	7	e	4	-	2 3	4	=	2	e	4	Complete	lete			
Inputs Outputs																			425 425
METHOD OF IMPLEMENTATION:	ITATION:	Unit Ap	Unit Application	ΑĽ	MINIST	ADMINISTRATIVE LEADTIME:	LEADTI	ME	4	Months		PRODL	PRODUCTION LEADTIME:	EADTII		9 Moi	Months		
Contract Dates: Delivery Date:		FY 1997 FY 1997	۷ ۷			₹ ₹	FY 1998 FY 1998	Multiple Multiple	<u> </u>			FY 1999 FY 1999		Multiple Multiple					

MODIFICATION TITLE (Cont):		3lock 1	Block 1 Upgrad	e TBD1	_													
FINANCIAL PLAN: (\$ in Millions)																		
	FY 1996		FY 1997	ž	FY 1998	FY 1999	666	FY 2000	8	FY 2001	-	FY 2002	<u> </u>	FY 2003	101		TOTAL	A.
	Oty \$	ð	\$	Qty	\$	Qty	\$	Qty	H	άţ		Oty \$	ģ	€	ğ	€9	Qty	\$
RDT&E																		
Kit Quantity				110		125		190									425	
Installation Kits																		
Installation Kits, Nonrecurring																		
Equipment					4.219		4.107		2.156									10.482
Equipment, Nonrecurring					0.026													0.026
Engineering Change Orders					0.032		0.025		0.025									0.082
Engineering Support					0.218		0.225		0.235									0.678
Training Equipment																		
Other					0.304													0.304
Fielding					0.076		0.111		0.118	. =								0.305
Installation of Hardware																		
FY 1996 & Prior Eqpt Kits	-,																	
FY 1997 Eqpt Kits																		
FY 1998 Eqpt Kits						110	0.295										110	0.295
FY 1999 Eqpt Kits						20	0.049	105	0.260								125	0.309
FY 2000 Eqpt kits								32	0.067	155	0.297						190	0.364
FY 2001 Eqpt kits														·				
FY 2002 Eqpt kits																		
FY 2003 Eqpt kits													,					
TC Equip-Kits		_									1		-					
Total Installment						130	0.344	40	0.327	155	0.297						425	0.968
Total Procurement Cost					67		4.8		66	_	0.3							12.8

Item No. 31 Page 4 of 6 249

					NDIV	IDUAL A	INDIVIDUAL MODIFICATION	ATION						Date	9	Februa	February 1998	
MODIFICATION TITLE: Block 2 L MODELS OF SYSTEMS AFFECTED:	Block 2 Upgrade TBD2 NFFECTED:	Jpgrad	TBD;															
DESCRIPTION / JUSTIFICATION:	ATION:																	
The rammer/extractor tool currently issued was "borrowed" from the M102 Howitzer which requires the base of the primed cartridge be forcefully struck by a hard rubble plunger. Upgrade elevating handwheel; it is the limiting factor in the system departure angle during cr	or tool cu a hard ru	urrently ibble plt			borrow de ele	/ed" fro vating ∣	m the handwh	M102 F neel; it	lowitze is the l	er whic imiting	th requi	ires the	e base c system	of the p depart	I was "borrowed" from the M102 Howitzer which requires the base of the primed cartridge be Upgrade elevating handwheel; it is the limiting factor in the system departure angle during cross	rtridge t during	oe cross	
country movement and is highly susceptib Improve the Direct Fire Scope; Improving	and is hig	ghly sus oe; Impi	sceptib oving	le to d the dir	amage ect fire	during	tactica will pro	l opera vide ni	ations. ight ca	These pability	e items /, impro	are in	cluded i	n the " and in	le to damage during tactical operations. These items are included in the "To Complete" (TC): the direct fire scope will provide night capability, improved accuracy and internal boresighting.	lete"(TC resightir	ng. Mg	Modify
the Firing Platform clamps; The firing platform must be disengaged from its stowage brackets, lifted manually from the trail, carried completely clear of the trail and placed on the ground before the howitzer can be rolled into its firing position. Modify the Elevation Clutches; This will	lamps; T placed o	The firin on the g	ig platf pround	form m before	ust be the hα	diseng witzer	aged fr can be	om its rolled	stowaç into its	ye brac i firing	kets, li positio	ifted m n. Mo	anually dify the	from the Elevati	orm must be disengaged from its stowage brackets, lifted manually from the trail, carried comple before the howitzer can be rolled into its firing position. Modify the Elevation Clutches; This will	arried conses; This	omplet s will	ely
reduce corrosion damage and lower maintenance costs. Replace competitive tubes in the buffer assembly with a more reliable system. This eliminates the collapse of the current tube design.	mage ar is elimina	nd lowe ates the	r main collar	tenanc ose of 1	e cost he cur	s. Rep rent tuk	lace co oe desię	mpetiti 3n.	ve tub	es in th	e buffe	er asse	w klame	ith a m	ore			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	/ MAJOR	DEVELO	PMENT	. MILES	MILESTONES:													
			Planned		4ccom	Accomplished						Pla	Planned	ĀĊ	Accomplished	þ		
Validate Materiel change (MC)	ange (MC	ଚ	7	1001	ĕ	3094		De.	Deliver First Mod Kit	rst Mo	Deliver First Mod Kit First Unit Equipped (FLIE)	ũ	3002					
Complete Testing of Prototype	Prototyp	ø	. ๙	2001				Ö	Deliver Last Mod Kit	ast Mo	d Kit	ĵ	2003					
Release Technical Data Package (TDP) Award Contract for Modification Kits	ata Pacl fodificati	kage (T ion Kits		4001 1002				ت	Last Unit Equipped	it Equij	pedd		3003					
Installation Schedule:															- Andrews			
PrYr	بد	FY 1997	266			FY 1998	8	Н	[	FY 1999			FY 2000	000		FΥ	FY 2001	
Inputs	Totals	2	8	4	-	2	e	4	-	2	<u>ε</u>		0	က	4	- 5	е	4
	_			1		1	-	-		-	_							
	FΥ	FY 2002			FY 2003	8	$\vdash$		FY 2004			F	FY 2005		To	0		Totals
	-	2 3	4	=	7	3	4	-	2	9	4	2	6	4	Complete	0		
Inputs Outputs		105	105	<del>2</del> <del>2</del>	1 0	100												425 425
METHOD OF IMPLEMENTATION:	FATION:	Unit Ap	Unit Application		NDMINIS	TRATIV	ADMINISTRATIVE LEADTIME:	IME:	9	Months	اع اع	PROD	PRODUCTION LEADTIME:	LEADTII	dE: 6	Months		
Contract Dates: Delivery Date:		FY 1997 FY 1997	<b>,</b> ,			C C	FY 1998 FY 1998					FY 1999 FY 1999	66					
												2	2					

[					INDIVID	UAL MO	INDIVIDUAL MODIFICATION	Z							Date		February 1998	1998	
FY 1996	MODIFICATION TITLE (Cont):	Œ	lock 2 Upgr	ade Ti	302													. Jen.	
Parkent	FINANCIAL PLAN: (\$ in Millions)	L	<b>r</b>																
Note   State   Color   State		and Prior	199	Н	199	H	/ 1999	FΥΣ	2000	FΥ	2001	FY 2	002	FY 2	903		1 1	TOTAL	<u></u>
REMENT         425         REMENT           Inity founding         Inity founding         8,996           Inity founding         0,002         0,110           Inity founding         0,002         0,010           Inity founding         0,002         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005           Inity founding         0,005         0,005 <tr< td=""><td>i G</td><td></td><td>4</td><td></td><td><math>\perp</math></td><td>ð</td><td>49</td><td>ģ</td><td>\$</td><td>ģ</td><td>69</td><td>ð</td><td>€9</td><td>è</td><td>69</td><td>ð</td><td>€</td><td>à</td><td>\$</td></tr<>	i G		4		$\perp$	ð	49	ģ	\$	ģ	69	ð	€9	è	69	ð	€	à	\$
Nonecurring Nonecurring 12,480 8,995	RDI &E																		
ruring class	Kit Quantity									425								425	
2.480 0.082 0.263 0.085	Installation Kits																		
100 Control Co	Installation Kits, Nonrecurring				<u>.</u>														
rders	Equipment										2.480						8.995		11.475
1- Krits	Equipment, Nonrecurring																0.110		0.110
Kits	Engineering Change Orders										0.082						0.350		0.432
0.085 0.022 0.022	Engineering Support										0.263						2.425		2.688
Kits	Testing																0.650		0.650
Kits	Support Equipment					··········													
Kits	Other										0.085						0.305		0.390
:- Kis	Fielding										0.022						0.076		0.098
:- Kis															•••				
: Kits												1. 3							· · · · ·
- Kits																			
tile Kits tile K	Installation of mardware										•								
ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits	EV 1007 East Kits																		
ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits ti – Kits	EV 1998 Fant :: Kits																		
st - kits         st - kits         st - kits         ent         ment Cost	FY 1999 Eapt Kits																		
tt - kits tt - kits ot - kits ot - kits ment Cost	FY 2000 Eqpt kits																		
ort – kits  at – kits  ent ent ment Cost	FY 2001 Eqpt kits																	•	
ot kits ent ment Cost	FY 2002 Eqpt kits															-			
ent ment Cost	FY 2003 Eqpt kits			.,															
7.9	TC Equip-Kits			-		-									1		0.952		0.952
2.9	Total Installment			$\dashv$	$\frac{1}{1}$	4											0.952		0.952
	Total Procurement Cost			$\dashv$	-	$\dashv$					2.9						13.9		16.8

		Exhibit P-4	0, Budget It	Exhibit P-40, Budget Item Justification Sheet	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	iai No:					P-1 Item Nomenclature:	TÐ:					
PROCUREMENT OF	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat	r VEHS / 2 / Weapon€		Vehicles				M16	M16 RIFLE MODS (GZ2800)	(00		
Program Elements for Code B Ilems:	ns:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	29.7	1.2	2.8	4.9	4.7	6.2	0.0	0.0	0.0	0.0	0.0	49.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	29.7	1.2	2.8	4.9	4.7	6.2	0.0	0.0	0.0	0:0	0.0	49.5
Initial Spares												
Total Proc Cost	29.7	1.2	2.8	4.9	4.7	6.2	0.0	0.0	0.0	0.0	0.0	49.5
Flyaway U/C												
Wpn Sys Proc U/C												
Later and the control of the control	- 1140 family.	2 2 2 2 2 3 7	10000	, online	7 1 1	money and being and and and and and and	l	T				

Rifle Modifications Program provides a close combat optic, a modular weapon system suite, a top carrysling and a permanently affixed, rear aperture, back-up iron sight. DESCRIPTION: The M16 family of rifles is a gas operated, magazine fed, selective fire and shoulder weapon. They are fed by 30 round aluminum magazines. The M16 The modular weapon allows the custom configuration of the M16 rifles with accessories and smaller items. i.e. optics, night sights, laser pointers, based on mission requirements.

JUSTIFICATION: The close combat optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity and and allows the combat commander to custom configure weapons with accessories (i.e. day/night sights, laser pointers, ancillary weapons, etc.) based upon the mission. The top carry sling maintains the rifle in an upright position freeing the user's hands for other tasks. The permanent back-up, rear aperture, iron sight provides that improves hit probability in daylight, low light level, wet weather and other adverse conditions. The modular weapon system is a key component of Land Warrior Lethality capability in the event it becomes immediately necessary.

Exhibit P-	Exhibit P-40M Budget Item Justification Sheet	em Justifica	ation Sheet			Date		February 1998		
Appropriation / Budget Activity/Serial No.				P-1 Item Nomenclature						
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	ons and Other Combat V					M16	M16 RIFLE MODS (GZ2800)	(00		
Program Elements for Code B Items		Code	Other Related Program Elements	am Elements						
Description	Fiscal Years									
OSIP NO. Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
/eapon Sys	d	d			d	Ġ	d	d	Ġ	0
Operational	0.0	K.3	<u>.</u>	C.4	0.0	0.0	0.0	0.0	0.0	0.9
Close Combat Optics (M16) TBD2 Operational	2.8	2.0	3.1	1.7	0.0	0.0	0.0	0.0	0.0	9.6
Totals	2.8	4.9	4.7	6.2	0.0	0.0	0.0	0.0	0.0	18.6
	- Louis									
		1								

	INDIVID	INDIVIDUAL MODIFICATION	CATION					De	Date	Fe	February 1998	
MODIFICATION TITLE: Modular Weapon System (M16/M203) TBD1	์ (M16/M203	) TBD1				:						
DESCRIPTION / JUSTIFICATION:	OMZ											
The modular weapon is a system of mounting rails/methods that allows the custom configuration of M16 Rifles with accessories and ancillary items such as optics, night sights, IR laser pointer, the grenade launcher, back-up sights, etc., based upon mission requirements in the field, without tools.	g rails/metho its, IR laser p	ods that allo oointer, the	ows the c grenade	custom launch	configur ner, back	ation of I	M16 Rifl ts, etc.,	es with based u	accesso pon mis	ries sion re	quireme	ents
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	LESTONES:			PLAI	PLANNED				ACCOMPLISHED	PLISH	<u>a</u>	
Developmental/Operational Tests Milestone III Production Decision Production Contract Award							m	3Q95-2Q96 4Q97 4Q07	96			
First Production Hardware Delivered First Unit Equipped			3Q9 4Q98	3Q98 Q98								
Installation Schedule:												
Pr Yr FY 1997		FY 1998		FY	FY 1999		FΥ	FY 2000			FY 2001	
Totals 1 2 3 Inputs Outputs	1	2	4	-	3	4	2	8	4	-	2	4
FY 2002	FY 2003			FY 2004			FY 2005			10		Totals
1 2 3 4 Inputs	1	3 4	-	2	4	-	2 3	4	Complete	ete		
										$\dashv$		
METHOD OF IMPLEMENTATION: Unit Application Contract Dates: FY 1997 Au Delivery Date: FY 1997 Ap	in ADMINIST Aug 97 Apr 98	ADMINISTRATIVE LEADTIME: FY 1998 M FY 1998 O	OTIME: May 98 Oct 98	9 86 86	Months	# F F	PRODUCTION LEADTIME: FY 1999 Nov 98 FY 1999 Oct 99	N LEADTI Nov 98 Oct 99		12 Months	ths	

					<b> </b>	<b>JUDIVIDIA</b>	L MODI	INDIVIDUAL MODIFICATION	2							Date		Februs	February 1998	
MODIFICATION TITLE (Cont):		ĭ	dular	Weapo	n Sys	tem (M	16/M20	Modular Weapon System (M16/M203) TBD1												
FINANCIAL PLAN: (\$ in Millions)																				
	ΕY	FY 1996											Į:							
	and S	and Prior	È ≷	FY 1997 tv \$	ĕ Ş	FY 1998 tv \$	E Ş	FY 1999 IV \$	FY 2000 Oty \$	000	FY 2001 Ωty   \$	\$	FY 2002 Ofy \$	\$ 005	QFY S	FY 2003	ğ	ည	aty	4 &
RDT&E		1.158	1																	1.158
PROCUREMENT																				
Kit Quantity			3143		1612		4380												9135	
Installation Kits									<del></del>											
Installation Kits, Nonrecurring				707		1 407		900												7 000
Equipment Nonrecuring				101		2		2												30.
Engineering Support				0.207		0.025		0.215												0.447
Testing				0.100																0.100
Integrated Logistical Support				0.050		0.005		0.075												0.130
Fielding				0.100		0.032		0.180												0.312
Other																				
Interim Contractor Support																				
											****									
								· · · · ·												
Installation of Hardware																				
FY 1996 & Prior Eqpt Kits																				
FY 1997 Eqpt Kits					3000		143					<b></b>							3143	
FY 1998 Eqpt Kits							1357		255										1612	
FY 1999 Eqpt Kits									4380										4380	
FY 2000 Eqpt kits																				
FY 2001 Eqpt kits																				
FY 2002 Eqpt kits																				
FY 2003 Eqpt kits																				
TC Equip-Kits											1		1							
Total Installment					3000		200		4635	1	1		1						9135	
Total Procurement Cost				2.9		1.5		4.5												8.9

MOIVIDNI	INDIVIDUAL MODIFICATION		٥	Date	February 1998	Γ
IODIFICATION TITLE: Close Combat Optics (M16) TBD2						
IODELS OF SYSTEMS AFFECTED: M16A2 Rifle, M68 Sight Reflex						
ESCRIPTION / JUSTIFICATION:						
The M68 Sight will be installed on the M16A2 Rifle						
	on with both eyes	ppen allowing grea	ter awareness of ev	ents	34	
nappening in close proximity to the soluter and improves in	it probability in dayi	igni, iow ligni level	and improves mit probability in daylight, low light level, wet weather and other adverse conditions.	iner adverse	conditions.	
						•
EVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	PLANNED	INED	ACCO	ACCOMPLISHED		
Development/Operational Test			1/2Q96			
Type Classification (LRIP)			4096			*
Production Contract Award			4096			
First Production Hardware Delivered	8000		109/			ě
	2030					
stallation Schedule:	•					
Pr Yr FY 1997 FY	FY 1998	FY 1999	FY 2000		FY 2001	
Totals 1 2 3 4 1	2 3 4	8 3	1 2 3	4	2	4
outputs						
FY 2002 FY 2003	FY	FY 2004	FY 2005	-To	Te	Totals
1 2 3 4 1 2	3 4 1 2	3 4 1	2 3 4	Complete		
nputs						
AETHOD OF IMPLEMENTATION: Unit Application ADMINISTRA	ADMINISTRATIVE LEADTIME:	1 Months	PRODUCTION LEADTIME:	9	Months	
contract Dates: FY 1997 Jul 97	FY 1998 Jan 98		FY 1999 Jan 99			
belivery Date: FY 1997 Jul 98	FY 1998 Mar 99	(	FY 1999 Jun 99			

					N	INDIVIDUAL MODIFICATION	MODIF	ICATION							Date	9		February 1998	y 1998	
MODIFICATION TITLE (Cont):		ၓ	se Co	Close Combat Optics (M16) TBD2	ptics (	M16) TI	302									:				
FINANCIAL PLAN: (\$ in Millions)	[	900+ AL																		
	and	and Prior	FY 1997	1997	FY 1998	866	FY 1999	660	FY 2000	900	FY 2001	<u>8</u>	FY 2002	202	FY 2003	33	70		TOTAL	A P
	ģ	49	Q Şî	€9	Q ty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Q ty	\$
RDT&E		1.469	l																	1.469
PROCUREMENT							-													
Kit Quantity	12090		9361		14840		7520												43811	
Installation Kits				-																
Installation Kits, Nonrecurring																				
Equipment		2.353		1.795		2.845		1.504												8.497
Eng Change Proposal				0.026		<u></u>														0.026
Engineering Support		0.337		0.185		0.185		0.139												0.846
Testing						0.050		0.050												0.100
Integrated Logistical Support		0.030		0.020		0.020		0.020												0.000
Fielding		0.030		0.020		0.020		0.020	· · -											0.090
Other								-												
Interim Contractor Support							-													
:																				
Installation of Hardware								·												
FY 1996 & Prior Eqpt Kits					12090														12090	
FY 1997 Eqpt Kits					511		8820												9361	
FY 1998 Eqpt Kits							2770		12070									•	14840	
FY 1999 Eqpt Kits									7520										7520	
FY 2000 Eqpt kits									·····				<u>-</u>							
FY 2001 Eqpt kits					-															
FY 2002 Eqpt kits																				
FY 2003 Eqpt kits							•										•••			
TC Equip-Kits																				
Total Installment					12601		11620		19590										43811	
Total Procurement Cost		2.8		2.0		3.1		1.7												9.6

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifice	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	il No:					P-1 Item Nomenclature:	re:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	VPNS & TRKD CMBT	VEHS/2/Weapons	and Other Combat \	vehicles			Σ	ODIFICATIONS LES	MODIFICATIONS LESS THAN \$2.0M (WOCV-WTCV (GC0925)	CV-WTCV (GC0925)	_	
Program Elements for Code B Items:				Code:	Other Related Program Elements:	am Elements:						
:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Oty												
Gross Cost	68.3	2.6	1.4	9.0	1.4	1.1	1.0	1.0	1.3	1.3	0.0	80.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	68.3	2.6	1.4	9.0	1.4	1.1	1.0	1.0	1.3	1.3	0.0	80.1
Initial Spares												
Total Proc Cost	68.3	2.6	1.4	9.0	1.4	1.1	1.0	1.0	1.3	1.3	0.0	80.1
Fiyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Provides for modification of Weapons and Other Combat Vehicles with a cost less than \$2.0 Million.

JUSTIFICATION: Funds identified in FY97/FY98 will modify the M198 Howitzer and provide machine gun optic sights for the M249, M60 and M240B Machine Guns. The M198 Howitzer will improve the reliability, availability and maintainability (RAM), handling, equilibrator, durability of parts, a reduction in operator fatigue and increased users' satisfaction. The M198 will have the latest enhancements available to service the currently envisioned battlefield. The optic sight will allow the soldier to identify and engage targets more effectively than the existing iron sighting system.

Exhibit P-	Exhibit P-40M Budget Item Justification Sheet	em Justifica	ation Sheet		Date	Đ		February 1998		
Appropriation / Budget Activity/Serial No. PROCOMBT VEHS / 2 / Weapons and Other Combat Vehicles	ons and Other Combat V	shicles		P-1 Item Nomenclature		NFICATIONS LESS	THAN \$2.0M (WOC	MODIFICATIONS LESS THAN \$2.0M (WOCV-WTCV) (GC0925)		
Program Elements for Code B tlems		Code	Other Related Program Elements	m Elements						
Description	Fiscal Years									
OSIP NO. Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
M198 Howitzer System Improvement TBD1 Operational	13.8	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5
ne Gun Optics										
TBD2 Operational	0.0	0.0	1.3	=	1.0	1.0	1.3	1.3	0.0	7.1
Totals	13.8	0.6	1.3	7:	1.0	1.0	1.3	1.3	0.0	21.5
			TREASON OF COURT OF CO.				9			

				NON	DUAL I	INDIVIDUAL MODIFICATION	CATION							Date		February 1998	1998	
MODIFICATION TITLE: M198	M198 Howitzer System Improvement TBD1	/stem	mpro	/emer	t TBC	=												
MODELS OF SYSTEMS AFFECTED: M198 Howitzer,	ED: M198 Ho		Medium Towed	Towed														
DESCRIPTION / JUSTIFICATION:																		
The purpose of the Materiel Change (MC) is to improve the reliability of the M198 System, improve the brake system, reduce operator for improve the retention of hardware and improve equilibrator adjustment. The areas of improvement were a result of M198 fielded system	el Change	(MC) is	to im	prove	the re	liability liustme	of the	• M198	Syste s of irr	m, imp	orove v	the bra	ake sys	is to improve the reliability of the M198 System, improve the brake system, reduce operator fatigue, rove equilibrator adjustment. The areas of improvement were a result of M198 fielded system	duce og	perator d syste	fatigu	ō,
review. Improvements in ram, handling ma	am, handlir	ig man	euver	ability,	dura	bility o	parts	, a red	rction	in oper	ator fa	atigue	and in	ineuverability, durability of parts, a reduction in operator fatigue and increased users satisfaction is	nsers	satisfa	ction is	ø
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	R DEVELOP		MILESTONES:	ONES:		<u> </u>	PLANNED				AC	COM	ACCOMPLISHED	٩				
Production Contract Awarded	warded									*	1091							
First Production Hardware Delivered	ware Delive	red								Ö	3091							
MFA/MWOFP Negotiated	ated										3091 2	č						
First Kit Applied Last Kit Applied											η <u> </u>	- 860 - 860 - 860						
Collective Evaluation Completed	Completed					4098	98											
Installation Schedule:																		
Pr Yr	FY 1997	76			FY 1998	98			FY 1999	6		_	FY 2000			FY 2001	1001	
<u> 위</u>	1 2 17	18	4 4	+	0	e	4	-	7	e	4	-	2	8	_	ત	<del>е</del>	4
Outputs 673	4 10	12	<b>₽</b>	=	1	-	$\dashv$	_	_	_	$\dashv$	-	-					
	FY 2002	H		FY 2003	33	H		FY 2004				FY 2005			To			Totals
1	2 3	4	-	2	3	4	-	2	3	4	-	2	3	4 C	Complete			
Inputs Outputs		-																739
METHOD OF IMPLEMENTATION:	l: Depot		₹	MINIS	TRATI	ADMINISTRATIVE LEADTIME:	TIME		ığ	Months	Œ	ODOC	PRODUCTION LEADTIME:	DTIME:		Months		
Contract Dates:	FY 1997				IL 1	FY 1998					<u></u> ₹ 3	FY 1999 EV 1000						
Delivery Date.	1661 1.1				-	0661					-	222						

П			٦	s		9.755	0.071	3.015	3.015	14.5
			TOTAL	ģ	739			739	739	
			10	s			,			
Fabruary 1906				ğ						
Date			FY 2003	s						
			FY	δţ					L	
			FY 2002	ક						
				ģ	<del></del>				1	
			FY 2001	\$						
			-	Ωţ					_	
			FY 2000	λ \$						
<b>ATION</b>	BD1			\$ Qty						Н
10DIFIC	ment T		FY 1999	Oty 8					-	
INDIVIDUAL MODIFICATION	nprove			Н					+	H
NDN	System Improvement TBD1		FY 1998	Qty					-	
			160		·			0.627	0.627	9.0
	M198 Howitzer		FY 1997	Qty				8	99	
	M.	S	Prior	\$		9.755	0.071	2.388	2.388	13.8
		4000	and Prior	Qty	739			673	673	
	MODIFICATION TITLE (Cont):	FINANCIAL PLAN: (\$ in Millions)			RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits	Equipment Equipment, Nonrecurring Engineering Change Orders	Data Training Equipment Support Equipment Fielding	Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits	Total Installment	Total Procurement Cost

			INDI	'IDUAL	INDIVIDUAL MODIFICATION	ATION							Date		February 1998	1998	
MODIFICATION TITLE: Machine	Machine Gun Optics TBD2	BD2															
MODELS OF SYSTEMS AFFECTED: M249 Squad Automatic Weapon; M60 Machine Guns, M240B Machine Guns	M249 Squad Au	Itomatic	Weapo	n; M60 l	Machine	Guns, M	240B M	achine (	Buns								
DESCRIPTION / JUSTIFICATION:																	
The Machine Gun Optic Program provides Guns. The optic sight will allow the soldier	ram provides w the soldier	an og to ide	tic (tel ntify ar	escopi nd eng	c) sight age tar	for the gets m	5.56n ore eff	nm M2 ective	y than	ght Ma	achine xisting	Gun a iron si	an optic (telescopic) sight for the 5.56mm M249 Light Machine Gun and 7.62mm Medium Machine to identify and engage targets more effectively than the existing iron sighting system.	mm Me	l mnibe	Machii	ne
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	DEVELOPMENT		MILESTONES:														
			P.	PLANNED	_		ACC	OMP	ACCOMPLISHED	Ω							
Development/Operational Tests	sts			3098													
Type Classification			•	4098													
Production Contract Award				4098													
First Production Hardware Delivered First Unit Equipped	livered			1099 2099	ത												
Installation Schodule:										ŀ							
Pr Yr	FY 1997			FY 1998	86	H		FY 1999			4	FY 2000			FY 2001	8	
Totals 1	2 3	4	=	2	3	4	-	2	3	4	_	2	3 4	-	8	၉	4
Inputs Outputs																	
FY	FY 2002	Ī	FY 2003	8			FY 2004			٦	FY 2005			ပ္		_	Totals
1 2	ω 4	Ŧ	7	က	4	╡	7	е	4	-	7	<u>е</u>	4 Q	Complete			
Inputs Outputs							· = 0										
METHOD OF IMPLEMENTATION:	Unit Application		ADMINIS	STRATI	ADMINISTRATIVE LEADTIME:	TIME:	-	Months	ths	P. P.	DUCTI	PRODUCTION LEADTIME:	DTIME:	<u>و</u>	Months		
Contract Dates; Delivery Date:	FY 1997 FY 1997			ш. ш.	FY 1998 FY 1998	Aug	Aug 98 Nov 98			<u>`</u>	FY 1999 FY 1999	Jan 99 Oct 99	<b>0</b> 0				
							3			:			$\left\  \cdot \right\ $				

					S	IVIDUAL	MODIF	INDIVIDUAL MODIFICATION							۵	Date		February 1998	7 1998	
MODIFICATION TITLE (Cont):		Mac	Machine Gun (	do un	Optics TBD2	, D2														
FINANCIAL PLAN: (\$ in Millions)	FY 1996																			
	Pri	┧	FY 1997	126	FY 1998	86	FY 1999	66	FY 2000	8	FY 2001	Į,	FY 2002	  2	FY 2003	503	2	11	TOTAL	<del> </del>
	og Sý	\$	à	es	à	8	à	69	à	<b>9</b>	à	9	È	<b>*</b>	<u>}</u>	9	Š	•	Š	æ
RDT&E PROCUREMENT Kit Quantity		***			1718		1378	···	1214		1191		1626		1625				8752	
Installation Kits Installation Kits, Nonrecuring																				
Equipment						1.117		968.0		0.789		0.774		1.057		1.056				5.689
Equipment, Nonrecurring	-		-			0 140	-	0.143		0.143		0.144		0.144		0.144				0.858
Testing				•		0.050		0.050		0.050		0.050		0.050		0.050			-	0.300
Integrated Logistical Support						0.020		0.019		0.020		0.020		0.020		0.020				0.119
Fielding						0.020	-	0.020		0.020		0.020		0.020		0.020			•	0.120
Other																				
intellin Connacion Support														-,						_
Installation of Hardware																			-	
FY 1996 & Prior Eqpt Kits																				
FY 1997 Eqpt Kits																				
FY 1998 Eqpt Kits							1350		368										1718	
FY 1999 Eqpt Kits									1010		368								1378	
FY 2000 Eqpt kits											1214								1214	
FY 2001 Eqpt kits							-				218		973						1191	
FY 2002 Eqpt kits													827		799				1626	
FY 2003 Eqpt kits															<u></u>		624		1625	
TC Equip-Kits		$\dashv$	+	1	1	1				$\dagger$		1	1	1	18	†	1	1	O. D.	
Total Installment		1	+	+	$\dagger$	,	1320	  -	13/8	,	38	,	3	7	3	6	624	T	70/9	1.4
I otal Procurement Cost		$\parallel$	-			<u>5</u>		-	$\ $	2.		2:		2.		<u>5</u>				,

		Exhibit P-4	Exhibit P-40, Budget Ite	em Justification Sheet	rtion Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	:0.					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat V	WPNS & TRKD CMB1	r VEHS / 2 / Weapons	and Other Combat N	Vehicles				ITEMS LESS TH	ITEMS LESS THAN \$2.0M (WOCV-WTCV) (GL3200)	TCV) (GL3200)		
Program Elements for Code B Items:	S:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	58.0	5.0	1.2	6.0	1.2	1.2	1.2	1.2	1.3	1.3	0.0	72.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	58.0	5.0	1.2	6.0	1.2	1.2	1.2	1.2	1.3	1.3	0:0	72.6
Initial Spares												
Total Proc Cost	58.0	5.0	1.2	6.0	1.2	1.2	1.2	1.2	1.3	1.3	0.0	72.6
Flyaway U/C												
Wpn Sys Proc U/C												
			11.				i	•				

DESCRIPTION: Provides for procurement and assembly of tool/shop sets, small arms, and gun mounts. The items are needed by maintenance personnel to maintain weapons and combat vehicles, and by Active Army, National Guard, Reserve and ROTC units to perform combat and training missions. The tool/shop equipment has multi-applications and is essential to all levels of weapon and combat vehicle maintenance. JUSTIFICATION: Required to achieve and sustain required levels of readiness to units providing maintenance support to all small arms (M16,9mm Pistol, 7.62 Machine Gun, etc.), arillery (M102,M119,M19,M19,M19, etc.) air defense (Vulcan, PIVAD, etc.) special weapons, and fire control (Tanks, etc.) organizations. Small Arms Weapons and mounts are required to support AAO shortages, field replacements and training requirements.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUPEMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat	get Activity/s OF WPNS	Serial No: § TRKD CMBT ther Combat		P-1 Line Iten ITEMS LES	P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (WOCV-WTCV) (GL3200)	MOCV-WTCV)		Weapon System Type:		Date: Febru	February 1998
WTCV	₽		FY 96			FY 97			FY 98			FY 99	
ents	8	TotalCost	ģ	UnitCost	TotalCost	Q Qfy	UnitCost	TotalCost	δţ	UnitCost	TotalCost	Oth	UnitCost
	$\prod$	\$000	Each	\$000	\$000	Each	\$000	000\$	Each	\$000	000\$	Each	\$000
1. Shot Gun, 12 Gage G124	∢	256	256	-	94	410		100	400		100	400	
2. Shop Equip, Small Arms G337 Repair, Shelter Mtd	∢		-		158	4	40				304	80	38
3. Shop Equip, Artillery Maint, G348 FM Set N	∢				76	N	38						
4. Tool Set, Instrument and G371 Fire Control FM	∢	204	10	20	94	4	24	26	N	28	105	r.	21
5. Shop Set, Small Arms, G385 Field Maint, PCS Set D	∢	110	Ø	55	16	N	46	75	<del>-</del>	75			
6. Shop Set, Small Arms G723 FM, Basic	∢				41	-	41				4.	<b>*</b>	4
7. XM144 Telescope	∢	629		·					·				
8. Tool Set, Battalion Maint G427	⋖				269	29	4	471	20	7	342	98	4
9. Tool Kit, Electronic Sys Maint S380	∢				103	18	9	488	94	5	299	75	4
тотаг		1249			868			1190			1164		
									1				1

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								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	Tē:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	VPNS & TRKD CMBT	VEHS / 2 / Weapons	s and Other Combat N	/ehkles				PRODUCTION BAS	PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)	/-WTCV) (GC0050)		
Program Elements for Code B Items:				Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	723.8	10.3	6.9	4.3	6.1	5.1	4.6	4.6	4.9	4.9	0.0	774.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	723.8	10.3	6.9	4.3	6.1	5.1	4.6	4.6	4.9	4.9	0:0	774.5
Initial Spares				,								
Total Proc Cost	723.8	10.3	5.9	4.3	6.1	5.1	4.6	4.6	4.9	4.9	0.0	774.5
Flyaway U/C												
Wpn Sys Proc U/C												
		-		1	i i							

Description: This program provides for Provision of Industrial Facilities (PIF). Funds are used to establish modernize, expand and replace facilities owned by the Army and provide Production Support and Equipment Replacement (PSR) and Modernization (MOD) to Government owned equipment used in production, production testing of Weapons and Tracked Combat Vehicles. Also provides funding for the Layaway of Industrial Facilities (LIF) for preservation of equipment and portions of plants which are no longer required for active production.

Justification: The FY99 request includes essential funding for replacement of equipment & instrumentation in production test facilities at Aberdeen, Yuma Proving Grounds, and White Sands Missile Range (WSMR) and layaway of industrial equipment which is excess to production requirements at Rock Island and Watervliet

FY 1999	3.441	5.140
FY 1998	3.489 2.578	6.067
FY 1997	2.904	4.296
FY 1996	3.215 2.640	5,855
	PIF LIF	TOTALS

oit P-5, \	Ì	Appropriation/ Budget Activity/Serial No:	get Activity/	Serial No:		o-1 Line Item	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
WTCV Cost Analysis		VEHS / 2 / Weapons and Other Combat	apons and C	writes & I HAU CMB! is and Other Combat		בחסססער	WTCV) (GC0050)	1041 (WOCV-				ine.	rectually 1990
WTCV	Qi		FY 96			FY 97			FY 98			FY 99	
Cost Elements	СО	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Oty	UnitCost	TotalCost	Qty	UnitCost
		000\$	Each	000\$	000\$	Each	\$000	000\$	Each	\$000	000\$	Each	\$000
09X5263 MOD, Aberdeen Proving Ground Provides funds to replace, modernize and upgrade equipment and instrumentation used in production testing of Wpns & Trkd Cmbt Vehs. Upgrading will be performed on automotive performance test equipment, vehicle dynamics, high speed imaging, interior exterior ballistics support inst, and toxic fumes instrumentation.		\$1.360			\$1.068			\$1.470			\$1.472		
09X5268 MOD, Yuma Proving Grounds Provides funds to replace, modernize and upgrade equip/instrumentation used in production testing of WTCV.		\$1.214			\$0.966			\$1.480			\$1.430		
09X5269 PSR, White Sands Missile Range Provides funds to replace, modernize and upgrade equip/instrumentation used in production testing at WSMR.		\$0.641			\$0.870			\$0.539			\$0.539		
69X7667 LIF, Rock Isl & Watervliet Arsenal Provides funds for Layaway and Redistribution of Government-Owned equipment and preservation of equipment to include portions of plants which are no longer required for active production, but must be retained for future use. Also provides for plant clearance/preparation of equipment to be excessed.		\$2.640			\$1.392			\$2.578			\$1.699		·
TOTAL		\$5.855			\$4.296			\$6.067			\$5.140		

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		Exhibit P-40, Budget	_	item Justification Sheet	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS	n / Budget Activity/Serial No: PPROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat	r VEHS / 2 / Weapons	and Other Combat V	Vehicles		P-1 Item Nomenclature:	.e.	INDUSTRIA	INDUSTRIAL PREPAREDNESS (GC0075)	(GC0075)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	37.2	6.7	5.3	5.1	5.6	4.0	4.5	4.4	5.1	4.8	0.0	82.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	37.2	6.7	5.3	5.1	5.6	4.0	4.5	4.4	5.1	4.8	0.0	82.5
Initial Spares												
Total Proc Cost	37.2	6.7	5.3	5.1	5.6	4.0	4.5	4.4	5.1	4.8	0.0	82.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program provides funding to retain, protect, and maintain laidaway reserve industrial plants and equipment. Costs include grounds, utilities, fire and guard protection. Also includes funding for condition assessments of laidaway facilities and costs to rehabilitate equipment to useable condition.

JUSTIFICATION: The FY99 request supports the equipment and facilities at Rock Island & Watervliet Arsenals. It includes the overhead cost attributed to the laidaway portions of the Arsenal. Funds also support some of the retention, maintenance and the cost for guard protection at the facilities which are not being utilized.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VFHS / 2 / Weapons and Other Combal	get Activity/? OF WPNS	Serial No: & TRKD CMBT		P-1 Line Item INDUSTRIA	P-1 Line Item Nomencialure: INDUSTRIAL PREPAREDNESS (GC0075)	ESS (GC0075)	<u>-</u>	Weapon System Type:		Date: Febru	February 1998
VOLM	₽		FY 96			FY 97			FY 98			FY 99	
ents	8	TotalCost	Qty	UnitCost	TotalCost	Q ty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	П	000\$	Each	000\$	000\$	Each	000\$	000\$	Each	\$000	000\$	Each	\$000
49X2100 Plant-Equip Storage, SEAD Provided for storage and maintenance of equipment which was retained at Seneca Army Depot (SEAD) to meet future production requirements.		\$1.049			\$0.108			, , , , , , , , , , , , , , , , , , ,					
49X4290 Ret & Maintenance - Facilities Provides for storage of equipment for future production at Rock Island and Watervliet Arsenals. Also funds for ground maint., fire and quard protection for inactive portions.		\$2.182			\$2.182			\$2.761			\$0.502		
69X7670 Ret & Maintenance - Plants/Equip. Provides for overhead costs attributed to laidaway portions of Watervliet & Rock Island Arsenal. Also funds storage and maintenance costs of equipment which has been laidaway for future production.		\$2.052			\$2.778			\$2.879			\$3.457		
TOTAL		\$5.283			\$5.068			\$5.640			\$3.959		

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifice	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	I No:					P-1 Item Nomenclature:	re:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	VPNS & TRKD CMBT	VEHS / 2 / Weapons	and Other Combat V	fehicles				SMALL ARMS	SMALL ARMS (SOLDIER ENH PROG) (GC0076)	)GC0076)		
Program Elements for Code B Items:				Code:	Other Related Program Etements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Oty												
Gross Cost	0.0	0.0	2.4	5.3	4.1	2.2	5.3	3.6	0.3	2.0	0.0	28.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0:0	2.4	5.3	4.1	5.2	5.3	3.6	0.3	2.0	0.0	28.3
Initial Spares												
Total Proc Cost	0.0	0.0	2.4	5.3	4.1	5.2	5.3	3.6	0.3	2.0	0.0	28.3
Flyaway U/C												
Wpn Sys Proc U/C												

and a mount for firing the M249 Squad Automatic Weapon (SAW) and M60 Machine Gun from the M998 HMMWV and a mount for firing the M249 from the M1025/1026 DESCRIPTION: This program provides small arms equipment for the soldier, a HMMWV Mount, Dual Mount. The HMMWV Mount provides the soldier with a pedestal HMMWV. The Dual Mount can be used in both the vehicular (Armament HMMWV) and ground mount application for the MK19 Grenade Machine Gun (GMG) and M2 Heavy Barrel Machine Gun.

the M1025/1026 HMMWV arises. The Dual Mount will be fielded to scout platoons enabling them to install or switch weapons quickly in the event one vehicle goes down. current MK64 system allowing for bold and accurate traverse and elevation, further range (elevation) for the MK19, recoil attention of the M2 Machine Gun and capability several non-standard and possibly unsafe methods of mounting weapons on the M998. This program will provide a standard, supportable weapon mount. Military Police and certain infantry units currently mount the M60 Machine Gun on the M1025/1026. As the M60 is replaced by the M249 Machine Gun the need to mount the M249 on JUSTIFICATION: Certain applications of the M998 HMMWV require that weapons be displayed and be available quickly for enemy confrontation. The field has devised In addition, procurement quantities have been increased to allow fielding to Infantry Anti-Armor and Military Police units. The system corrects the shortcomings of the for range card preparation.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD C	get Activity/8 OF WPNS	Serial No: & TRKD CMBT		P-1 Line Item SMALL A	P-1 Line Item Nomenclature: SMALL ARMS (SOLDIER ENH PROG)	ENH PROG)		Weapon System Type:		Date: Febru	February 1998
WTCV	9	VEHS / 2 / Weapons and Other Combat	PV 96	ther Combat		FV 97	(GC0076)		FY 98			FY 99	
ents	_	TotalCost	ĝ	UnitCost	TotalCost	ĝ	UnitCost	TotalCost	∂	UnitCost	TotalCost	ρĝ	UnitCost
		Н	Each	<del>69</del>	\$000	Each	છ	\$000	Each	<del>\$</del>	\$000	Each	<del>ທ</del>
1. Hardware MK93 MOD 1 DUAL MOUNT Dual Mount - New Contract		1600	1029	1555	1300	103	2146		0		2731	1241	2201
HMMWV M249 Mount M998 (Quantity) HMMWV Mount M1025/1026 (Quantity)		36 36	08	1642	1254	_	500	1583 583	1740	335	905	2550	355
MK93 MOD1 (ECP)		*			• •						390		
2. ESIP Dual Mount HMMWV M249 Mount		225			459 398		·	260			270		
3. Testing Dual Mount HMMWV M249 Mount		50		<del>,</del>	450		***************************************	550			50		
<ol> <li>Integrated Logistics Support         Dual Mount             HMMWV M249 Mount             Materiel Release/Engineering Studies     </li> </ol>		25 47 53		•	20 153 293			50			200		
5. Fielding HMMWV M249 Mount				W	130		: . <del></del>	230			230		
TOTAL		2350			5338			4093			5233		

Expipit	Exhibit P-5a. Budget Procurement History and Planning	istory ar	ıd Planning					Date:	Echrican 1009	
=HS/2/V	•	Weapon System Type:	т Туре:		P-1 Line Item Nomenclature:	Vomenclature:	Omenclature:	יט יט יט	0078)	
Other Combat Vehicles		Contract	ľ	Ī		-		Specs	F	REP Issue
WBS Cost Elements: Fiscal Years	Contractor and Location	Method and Type	Location of PCO	Award Date Date of First Delivery	Date of First Delivery	o⊤ Each	Unit Cost	Avail	Revsn	Date
DUAL MOUNT/FY96	Fraser Maunfacturing Corp		ACALA	May-96	Jan-98	1029	1555		χeλ	
DUAL MOUNT/FY97	Fraser Maunfacturing Corp	C/FFP	ACALA	May-97	Jul-98	366	2146			
DOAL MOUNT/F197 New Contract HMMWV M249 MOUNT/FY96 M6 Pedestal	Ramo Manufacture Inc. Nashville, Tn	C/FFP	ARDEC		Apr-97	120	1642	Yes	೭	
M197	Nautic-All	C/FFP	ARDEC	Aug-96	Mar-97	200	450			
HMMWV M249 MOUNT/FY97 M6 Pedestal	Ramo Manufacture Inc. Nashville, Tn	C/FFP (Option)	ARDEC	Sep-97	Feb-98	099	1900	Yes	Š	
M197 Mount	Ma-Tech Inc. Hebron, Va	C/FFP	ARDEC	Sep-97	Feb-98	2005	200			
HMMWV M249 MOUNT/FY98 M6 Pedestal	Ramo Manufacture Inc. Nashville, Tn	C/FFP (Option)	ARDEC	Mar-98	Jan-99	099	2064			
M197 Mount	Ma-Tech Inc, Hebron, Va	SS/8A	ACALA	96-unf	Dec-98	2400	335			Jan-98
HMMWV M249 MOUNT/FY99 M197 Mount	Ma-Tech Inc, Hebron, Va	C/FFP	ACALA	Jan-99	Dec-99	2550	355		<del></del>	
Dual Mount/FY99	TBS	C/FFP	ACALA	Jan-99	Jan-00	1241	2201			
REMARKS:										

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifice	ition Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	I No:					P-1 Item Nomenclature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS/3/Spares and Repair Parts	CMBT VEHS/3/Sp	ares and Repair Part	ø				SPARES AND	SPARES AND REPAIR PARTS (WTCV) (GE0150)	CV) (GE0150)		
Program Elements for Code B Items:				Code:	Other Related Program Elements:	ım Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	25.9	19.9	20.2	23.2	26.4	27.9	35.3	37.3	0:0	216.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	25.9	19.9	20.2	23.2	26.4	27.9	35.3	37.3	0.0	216.1
Initial Spares												
Total Proc Cost	0.0	0.0	25.9	19.9	20.2	23.2	26.4	27.9	35.3	37.3	0.0	216.1
Fiyaway U/C												
Wpn Sys Proc U/C												

Description: Provides for procurement of spares to support initial fielding of new or modified end items.
Justification: The funds in this account procure depot level reparable (DLRs) secondary items from the Supply Management, Army (SMA) revolving fund (formally Army Stock Fund). To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:

System	FY 1996	FY 1997		FY 1999
161 M1A2	17.1	9.5	13.7	9.8
E0163 BFVS	4.9	2.3		7.1
E0167 M109	2.4	6.4		
E0171 IRV	1.6	2.0		2.9
GE0173 C2V			6.	2.5
GE0177 HAB			o;	6.
Total	25.9	19.9	20.2	23.2

# PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

#### APPROPRIATION LANGUAGE

and private plants, and the land necessary therefore, for the foregoing purposes, and such lands and interests therein, may be appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment including ordnance, spare parts, and accessories therefore: specialized equipment and training devices; expansion of public acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, layaway; and other expenses necessary for the foregoing purposes; \$1,433,608 in fiscal year 1999 to remain available for For construction, procurement, production, and modification of weapons and tracked combat vehicles, equipment; obligation until September 30, 2001.

# PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

#### **SECTION 3**

# COMPARISON OF PROGRAM REQUIREMENTS AND FINANCING

Comparison of FY1998 program requirements as reflected in the FY1998 Budget Estimate with FY1998 program requirements as shown in the FY1999 Budget Estimates. Comparison of FY1998 financing as reflected in the FY1998 Budget Estimate with FY1998 financing requirements as shown in the FY1999 Budget Estimates.

Comparison of FY 1997 program requirements as reflected in the FY 1998 Budget Estimate with FY 1997 program requirements as shown in the FY 1999 Budget Estimates. Comparison of FY1997 financing as reflected in the FY1998 Budget Estimate with FY 1997 program requirements as shown in the FY1999 Budget Estimates.

#### COMPARISON OF FY 1998 PROGRAM REQUIREMENTS AS REFLECTED IN THE FY 1998 BUDGET ESTIMATE WITH THE FY 1998 PROGRAM REQUIREMENTS AS SHOWN IN THE FY 1999 BUDGET ESTIMATE (In Thousands of Dollars)

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

∞	ints Per Increase	timate (Decrease)	204,064			9 ( 423)	5 225,158
FY 1998	Requirements Per FY1999	Budget Estimate	1,199,918	070	/0,/40	20,199	1,290,865
FY 1998	Requirements Per FY1998	Budget Estimate	995,854	402.31	47.4,31	20,622	TOTAL 1,065,707
Appropriation	Procurement of Weapons and Tracked Combat Vehicles, Army		Activity 1 - Tracked Combat Vehicles	Activity 2 - Weapons & Other Combat	Vellicies V	Activity 3 - Spares and Repair Parts	

### **EXPLANATION BY ACTIVITY**

Sustainment (+\$110,000), FAASV (+\$40,000), Carrier Mods (+\$20,000), Howitzer 155mm (+\$56,000), Improved Recovery Vehicle (+\$4,000), as well as pro rata adjustments for Sections 8043, 8106, 8041 and Congressionally-directed economic Activity 1 - Tracked Combat Vehicles: The net increase resulted from Congressional adjustments to Bradley Base assessments (-\$25,936).

Machine Gun (+\$15,000), MK19-3 Grenade Launcher (+\$8,000) as well as pro rata adjustments for Section 8043, 8106, 8041 Activity 2 - Weapons and Other Combat Vehicles: The increase resulted from Congressional adjustments to Armored and Congressionally-directed economic assumptions (-\$1483).

Activity 3 - Spares and Repair Parts: The decrease resulted from pro rata adjustments for Section 8043 and 8106 and Congressionally-directed economic assumptions (-\$423)

## AS REFLECTED IN THE FY 1998 FINANCING WITH THE FY 1998 FINANCING AS WITH THE FY 1998 FINANCING AS SHOWN IN THE FY 1999 BUDGET ESTIMATE (In Thousands of Dollars)

Appropriation Procurement of Weapons and Tracked Combat Vehicles, Army	FY1998 Financing Per FY1998 Budget Estimate	FY1998 Financing Per FY1999 Budget Estimate	Increase or (Decrease)
Program Requirements (Total) Program Requirements (Service Account) Program Requirements (Reimbursable) Less: Anticipated Reimbursements	1,244,707	1,342,565	97,858
	1,065,707	1,290,865	225,158
	179,000	51,700	(127,300)
	(179,000)	(51,700)	(127,300)

	1,290,865
	1,065,707
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<b>BUDGET AUTHORITY</b>	Appropriation

## COMPARISON OF FY1997 PROGRAM REQUIREMENTS AS REFLECTED IN THE FY1998 BUDGET ESTIMATE WITH THE FY1997 PROGRAM REQUIREMENTS AS SHOWN IN THE FY1999 BUDGET ESTIMATE (In Thousands of Dollars)

Increase or (Decrease)	-48,730	-273	-397	-49,400
FY 1997 Requirements Per FY1999 Budget Estimate	1,295,042	104,130	19,883	1,419,055
FY 1997 Requirements Per FY1998 Budget Estimate	1,343,772	104,403	20,280	1,468,455
Appropriation Procurement of Weapons and Tracked Combat Vehicles, Army	Activity 1 - Tracked Combat Vehicles	Activity 2 - Weapons and Other Combat Vehicles	Activity 3 - Spares and Repair Parts	TOTALS

### EXPLANATION BY ACTIVITY

Activity 1 - Tracked Combat Vehicles - The decrease resulted from Acquisition Workforce Adjustments (-\$549), inflation adjustments (-\$4,561) reprogramming of the Armored Combat Earthmover to OPA (-\$50,952), reprogramming of Linebacker from Missiles (+\$7,100) and below threshold reprogrammings (+\$232).

Activity 2 - Weapons and Other Combat Vehicles - The decrease resulted from inflation adjustment (-\$367) and below threshold reprogrammings (-\$93).

Activity 3 - Spares and Repair Parts - The decrease resulted from inflation adjustment (-\$72) and below threshold reprogrammings (-\$325).

## AS REFLECTED IN THE FY1997 FINANCING AS REFLECTED IN THE FY1998 BUDGET ESTIMATE WITH THE FY1997 FINANCING AS SHOWN IN THE FY1999 BUDGET ESTIMATE SUMMARY OF REQUIREMENTS In Thousands of Dollars)

Appropriation Procurement of Weapons and Tracked Combat Vehicles, Army	FY1997 Financing Per FY1998 Budget Estimate	FY1997 Financing Per FY1999 Budget Estimate	Increase or (Decrease)
Program Requirements (Total) Program Requirements (Service Account) Program Requirements (Reimbursable) Less: Anticipated Reimbursements	1,603,055 1,468,455 134,600 (134,600)	1,553,655 1,419,055 134,600 (134,600)	49,400 (49,400) 0

	1,419,055
	1,468,455
<b>BUDGET AUTHORITY</b>	Appropriation